



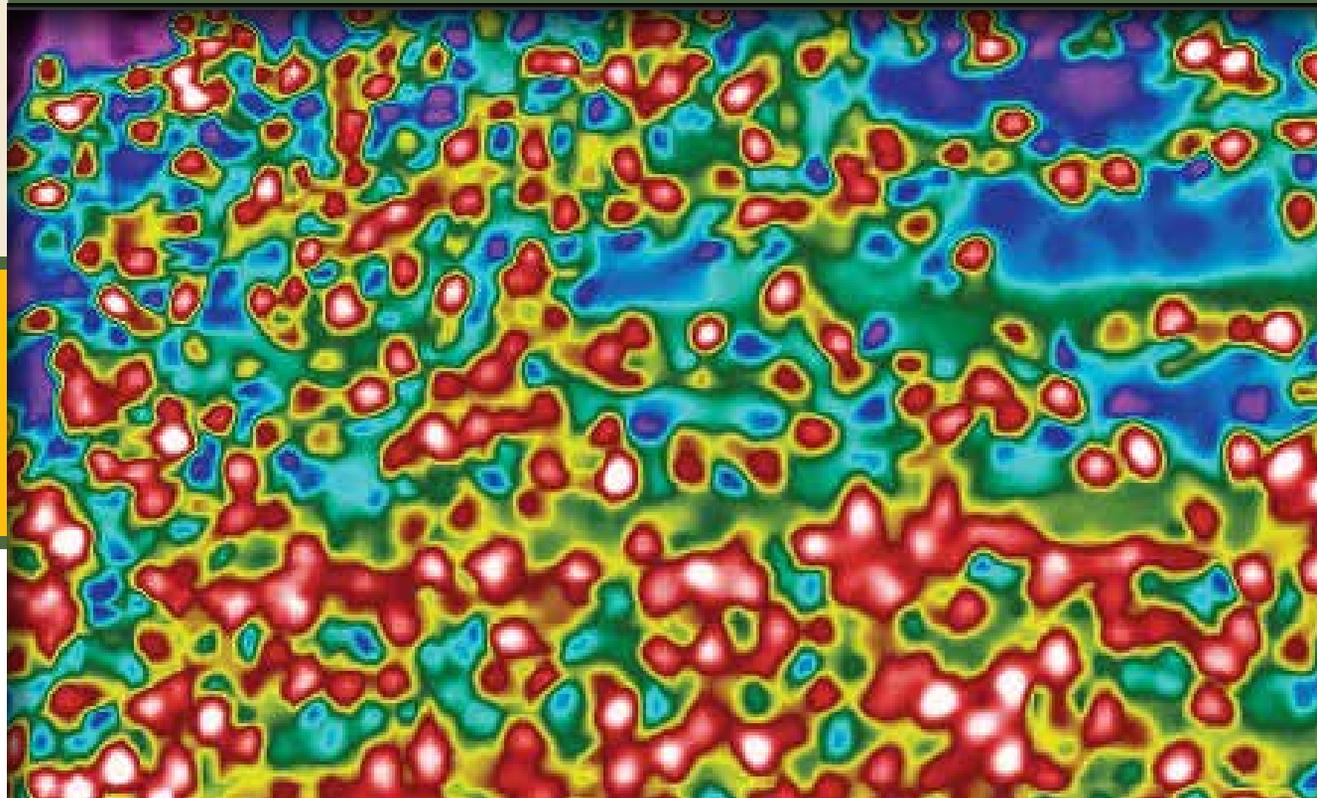
# Hive Rights

[www.honeycouncil.ca](http://www.honeycouncil.ca)

The Official Magazine of the Canadian Honey Council, The Canadian Beekeeper and The Canadian Honey Packer

**Apimondia  
2019  
Registration  
Categories  
& Fees**

**Improving  
Honeybee  
Queen  
Shipping  
Methods**



## HEAT IN THE HIVE



**Bees-at-law**

**Production  
and Value  
of Honey**



*see page 15  
for details*

\$4.95



Check out our website! ([www.dadant.com](http://www.dadant.com)) Canadian customers can now order online with all duties, fees, taxes and UPS shipping totaled at order time. No surprises at the border with additional unexpected charges to get your items. We make it easy to place your order and receive your products.

*Quality that can't be beat anywhere in the industry*

**AP23<sup>®</sup>**  
Artificial Pollen 23  
**WINTER PATTIES**  
WITH **HONEY-B-HEALTHY**  
M001604PHW  
1 CTN - 40 PATTIES



Ask about  
Quantity Pricing!

**Premium  
Smokers**



M00926

M00928

**AP23<sup>®</sup>**  
**POLLEN SUPPLEMENT**

M001604PH AP23  
40 LB BOX 40 LB BAG



**Apiguard for  
Varroa Mite  
Control**

M01480

**Assembled  
Starter Kit  
C52201P**



A Complete Line of Containers



Tools



M00010

New 2015  
Edition of  
The Hive and  
the Honey Bee

Full Line of Honey  
House Equipment



**Little Wonder  
Hand-Extractor Kits**

M00396KIT - Hand  
M00403KIT - Power

A complete line of  
quality woodenware  
& foundations

Many styles from  
which to choose

**Economy  
Vent Suit  
V01260(size)  
Suit**



**WWW.DADANT.COM**

51 S. SECOND STREET, HAMILTON IL 62341 • PHONE (217) 847-3324 • FAX (217) 847-3660 • TOLL FREE 1-888-922-1293  
• CHICO, CA (877) 332-3268 • FRESNO, CA (877) 432-3268 • PARIS, TX (877) 632-3268 • SIOUX CITY, IA (877) 732-3268 •  
• WATERTOWN, WI (877) 232-3268 • ALBION, MI (877) 932-3268 • WAVERLY, NY (877) 532-3268 •  
• CHATHAM, VA (800) 220-8325 • FRANKFORT, KY (888) 932-3268 • HIGH SPRINGS, FL (877) 832-3268 •

Hivelights: The official magazine of the Canadian Honey Council, The Canadian Beekeeper and The Canadian Honey Packer.

The Canadian Honey Council (CHC) is the national organization of the Canadian beekeeping industry and Hivelights is the industry's magazine.

In order to receive Hivelights you must be a current member of your provincial association. Non members such as Hobby Beekeepers, Honey Packers, Urban Beekeepers or Canadians with interests in Beekeeping can subscribe to the magazine for a \$25.00 subscription fee per year.

International and U. S. subscribers can receive our high quality magazine for a fee of \$50 Canadian per year.

Schools, libraries, non beekeepers, university or government personnel can receive Hivelights magazine through special membership as "Friends of Canadian Apiculture" at no charge. Please contact the Hivelights office for more information: geoff@honeycouncil.ca

Hivelights is published quarterly (Feb, May, Aug, Nov). Deadline for submissions and adverts are 6 weeks prior to publication (i.e. Dec 15th for Feb issue). The opinions expressed in the articles printed in Hivelights are those of the authors and do not imply endorsement of the Canadian Honey Council for the promotion of any product, goods or services mentioned unless specifically stated.

Advertising rates as are follows:

|                | Black & White | Full Colour |
|----------------|---------------|-------------|
| 1/8 page       | \$100.00      | \$150.00    |
| 1/6 page       | \$125.00      | \$185.00    |
| 1/4 page       | \$195.00      | \$300.00    |
| 1/2 page       | \$360.00      | \$500.00    |
| Full Page      | \$700.00      | \$900.00    |
| Business Card  | \$50.00       | \$75.00     |
| Classified Ads | \$25.00       |             |

Now Available – One Full Page in color, consisting of a 1/2 page advert with a 1/2 page of editorial describing the products in the advert.

A 25% discount applies if 4 adverts are placed for one full year (4 issues).

To obtain advert specifications and book advert space contact:

Geoff Todd (403) 512-2123 geoff@honeycouncil.ca

Publication Mail Agreement number

**43070512**

**ISSN 1489-730X**

Return undeliverable Canadian addresses to  
Hivelights

PO Box 914, Station T Calgary,

Alberta T2H 2H4

geoff@honeycouncil.ca

www.honeycouncil.ca

(403) 512 2123



February 2018 Vol 31 #1

Funded by the  
Government  
of Canada

Canada

Cover picture - Digital and false colour infrared images of the top of the brood chamber.

Cover story - See page 15.



## Table of Contents

- 1 2017 CHC Directors
- 3 Canadian Honey Council Report .....Rod Scarlett
- 5 Willy Baumgartner Award
- 5 Fred Rathje Award
- 7 Apimondia 2019
- 8 The Canadian Bee and Honey Industries Shortage of Workers
- 9 Regional Reports .....CHC Directors
- 15 Heat in the Hive .....  
.....Peter G. Kevan, Patricia Nunes Silva, Rangarajan Sudarsan, Hermann J. Eberl
- 19 Improving Honeybee Queen Shipping Methods
- 21 Bees-at-law .....Noël Sweeney
- 23 World Bee Day ..... Mr. Boštjan Noč
- 25 Food Fraud ..... Canadian Food Inspection
- 26 Production and value of honey .....Compiled by Statistics Canada
- 28 Help Wanted
- 32 Classifieds

Hivelights - The Magazine of the Canadian Honey Council is printed with all natural vegetable based inks. Please recycle this magazine.



## 2017 Directors • Canadian Honey Council / Conseil Canadien de Miel

### Chair

**Kevin Nixon**

Beekeepers Commission of Alberta  
35566 Range Road 263

Red Deer County, Alberta, T4G 0C9

T: 403-227-0092

E: kevin@nixonhoney.ca

### Vice Chair

**Scott Plante**

Federation des Apiculteurs du Quebec  
2369 chemin Lambert

St-Nicolas, PQ, G7A-2N4

T: 418- 531-0786

F: 418- 531-1112

C: 418-455-3866

E: scott.plante@bell.net

### 2nd Vice

**Stan Reist**

B.C. Honey Producers

6124 Metral Drive,

Nanaimo B.C. V9T 2L6

Phone: 250-390- 2313

E-mail: flydutch@telus.net

### 3rd Vice

**Dani Glennie**

Saskatchewan Beekeepers Association  
Box 844

Langenburg, Sask S0A 2A0

H: 306-743-2418

C: 306- 496-7272

E: dani\_glennie@msn.com

### Director

**Bernie Rousseau**

Bee Maid Honey

13407-136 Ave NW

Edmonton AB T5L 4B4

C: 780-907-6777

E: bernie@beemaid.com

### Director

**Mario Swinkels**

Maritime Beekeepers Association

Box 965

Antigonish, Nova Scotia B2G 2S3

T: 902-863-5791

C: 902-870-5106

E: mario@swinkels.ca

### Director

**Ryan Poelman**

Beekeepers Commission of Alberta

P.O. Box 1851

Ford Macleod AB T0L 0Z0

E: poelman95@gmail.com

C: 403-593-2177

### Director

**Allan Campbell**

Manitoba Beekeeper's Assoc.

(204) 590-9441 cell

(204) 638-6515 office

RR#5 COMP.31

Dauphin, MB, R7N2T8

E: allan@durstonhoneyfarms.com

### Hivelights Magazine Editor and Advertising

**Geoff Todd** Box 914, Stn. T., ph. 403-512-2123 geoff@honeycouncil.ca

### Director

**Albert Devries**

Ontario Beekeepers Association

44648 Ferguson Line

St Thomas Ontario

N5P 3T3

Phone: 519-868-9429

Email: devriesfour@gmail.com

### CHC OFFICE

**Executive Director**

**Rod Scarlett**

#218, 51519 RR 220

Sherwood Park, AB T0E 1H1

T: 877-356-8935

C: 780-498-0231

E: chc-ccm@honeycouncil.ca

**Design and Production** .....Cristian Campean  
**Advertising enquiries** ..... Geoff Todd  
**Publisher** .....Bunker to Bunker Books Inc.

Printed in Canada

Proud sponsor of the Canadian Honey Council

**MEDIVET**

## *A reliable partner*

Beekeepers have had to broaden their management skills even further with increasing challenges by diseases and pests.

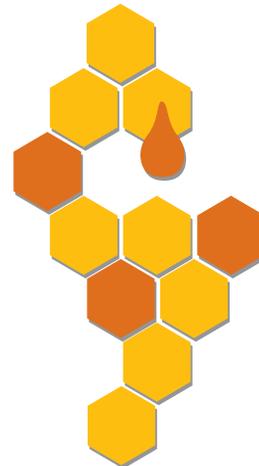
We can help by supplying you with the information you need to make informed decisions about disease prevention and the role of pharmaceuticals in your management practices.

Suppliers of  
Oxytet-25 Soluble  
Fumagilin-B  
Formic Acid  
Bee Repel  
Apistan  
FoulBrood Mix



403 652-4441 [www.medivet.ca](http://www.medivet.ca)

# Canadian Honey Council Report



*Rod Scarlett, Executive Director, CHC*

**T**he new year brings new Board members and renewed interest in ongoing issues. Welcome to Jake Berg, Terry Greidanus and Neil Specht, our new Board members, with all kind of experience on their provincial and other industry related boards. Perhaps the greatest threat to the industry is the reliance on a limited number of products for varroa control. It is almost a certainty the full-scale resistance to some of the more reliable products will be occurring with more regularity in Canadian bee stocks. The CHC has, and will continue to push for the quick approval of Hopguard which is currently pending approval by the PMRA. In addition, we have met with officials from Bayer who have indicated that Bayvarol will be available this spring. While minimum residue levels (MRL's) have been set in many countries for this product it is important for beekeepers to know that not all countries have an MRL for Bayvarol, the United States being the most noteworthy. The CHC has pointed this issue out and Bayer has indicated that they work on a solution. If label instructions are followed, MRL concerns should not be an issue. The addition of these new products does not mitigate the concern about developing new compounds to con-

trol varroa and we will continue to encourage more research and development in this area.

Product labelling of honey continues to be an area where industry input and consultation is ongoing. Over the next couple of years, we will see significant changes in honey labelling and we will continue to update beekeepers on the status of these consultations but for now, we have been assured that before imposing individual changes, there will be adaptation period whereby all the changes can be put into place. For example, we already know that the nutritional table will have to be changed but we await final word on things like country of origin, grades, front-of-package and other proposed labelling changes.

At our meeting in Kelowna last fall, the CHC and the Provincial Apiculturalists agreed to set up a joint committee to address issues concerning interprovincial transport of honey bees. The issue has come to the forefront because of the expansion of small hive beetle. Stan Reist, Allan Campbell, Albert Devries and Scott Plante will represent beekeepers on this committee. From the perspective of the CHC it is important that there be as much coordination as possible between provincial jurisdictions so that when beekeepers transport their stock interprovincially they clearly understand the rules and that those rules don't impose unwarranted or unreasonable restrictions on that movement.

While individual provinces have been working diligently on helping veterinarians develop appropriate antimicrobial policies, little has been done to coordinate the policy directions nationally. The interprovincial transport of bees means that there needs to be some coordination in the availability of products such as oxytetracycline and tylosin. There are several other issues that need to be worked out

prior to the fall of 2018 in order to ensure that beekeepers get access to the drugs they need to treat their stock in a timely, cost effective and appropriate manner.

Food safety and traceability will continue to become more and more important. Consumers will demand it and it is incumbent that beekeepers be in front of the curve on this. Years of work was done to develop CBISQT, the Canadian Bee Industry Safety Quality Traceability Producer Manual. More recently, an abridged version combining biosecurity and food safety was developed. The Canadian Beekeepers' Practical Handbook to Bee Security and Food Safety can be found on our website at <http://honeycouncil.ca/canadian-beekeepers-practical-handbook-to-bee-biosecurity-and-food-safety/>

Or French [http://honeycouncil.ca/wp-content/uploads/2016/04/French-version-Canadian\\_Beekeepers\\_Practical\\_Handbook\\_to\\_Bee\\_Biosecurity\\_and\\_Food\\_Safety.pdf](http://honeycouncil.ca/wp-content/uploads/2016/04/French-version-Canadian_Beekeepers_Practical_Handbook_to_Bee_Biosecurity_and_Food_Safety.pdf)

Also available on the website is the Canadian Best Management Practices for Honey Bee Health:

<http://honeycouncil.ca/wp-content/uploads/2016/12/BMP-manual-for-honey-bee-health-Feb-2017-English.pdf>

Or French <http://honeycouncil.ca/wp-content/uploads/2016/12/Manuel-pour-la-santé-des-abeilles-mellifères-fev-2017-Français.pdf>

A quick reminder that the website has important and relevant information for beekeepers. Finally, I encourage each of you to download our app. Simply go the app store and download for free. <https://play.google.com/store/search?q=Canadian%20Honey%20Council&c=apps> ■

# Propolis-etc...

Beekeeping Supplies - Matériel Apicole

Winter months are restful months,

and a good time to prepare for the season ahead.

It's that time of year to take inventory of your beekeeping equipment and plan ahead. What needs repair or replacement? Are you thinking of expanding your apiary? Now is the time to shop for your boxes, frames and other essentials.

Woodenware at *Propolis-etc...* comes assembled or unassembled, so if you'd like to get busy in your workshop, you can build your boxes and frames and add your own finishing touches.

You can expect top quality kiln-dried wood, high precision cuts, and pre-drilled holes. We also sell all the required hardware and useful extras such as metal frame rests, spacers, corner protectors & more!

The best way to discover our vast selection of beekeeping supplies is to browse our catalogue. Each item is explained in detail.

Simply visit: [www.propolis-etc.ca](http://www.propolis-etc.ca)



To place an order, call **1-888-660-6665** or email us at [info@propolis-etc.ca](mailto:info@propolis-etc.ca)

We ship everywhere. Give us a call and we'll be glad to assist you.

# Willy Baumgartner Award

**M**ore than 35 years ago Derrick Johnston started working for Alberta Honey Producers Co-op (AHP) while still in High School. He started by working in Package Bees (before wintering started) & the Beekeeping Supply Department. He did this on his school holidays and weekends etc. After finishing school Derrick was hired as a full time employee. Over the next 20 plus years Derrick served as the Beekeeping supply Manager. It was during this period that Willy Baumgartner was starting up and looking for a contact supply outlet to help make his products available to the beekeepers. Derrick & Willy started their business relationship together and it still carries on today.

In the last 15 plus years Derrick also took on additional responsibilities to his Supply Manager role by being appointed as the AHP Co-op (Bee Maid Honey) Members & Membership Manager.

Over these many years, Derrick has dealt with 1000's of honey producers across Canada. Many of the larger member producers are now

2nd and even a few 3rd generation.

If Derrick has not met a producer, odds are he certainly has spoken with them by phone or in today's era, by text or email.

Derrick always said and practiced that the honey producer must be looked after first or their will be no honey. He worked many long tireless hours in the busy seasons to make sure all producers requests and needs were met.

Whenever someone happens to meet a honey producer and is looking for something, Derrick's name almost is the first that comes up as a contact.

If you ask anyone in the industry today about Derrick and his commitment to the honey industry in Canada you will never hear a negative word spoken.

Derrick is held in high esteem and respected by the Canadian industry. Derrick Johnston is very deserving of the Willy Baumgartner award. ■



Bernie Rousseau and Derrick Johnston with Stan Reist in background

# Fred Rathje Award

**A**lthough the Fred Rathje Award is normally given to only one named person for effective leadership and significant contributions for the improvement of the beekeeping industry, Elizabeth and Terry Huxter have both contributed provincially, nationally and internationally to the beekeeping industry. Both are past presidents of the British Columbia Honey Producers Association. And Liz has been, and presently is, the president of the BC Bee Breeders Association. Liz and Terry have based their participation in the beekeeping community on the tenets of education, innovation and breeding. Early in their careers they met and were inspired by John Corner, Harry Laidlaw, Homer Park and Bill Wilson.

Terry organized the educational Tracheal Mite Symposium in 1990 to help beekeepers formulate policies with the best knowledge available. As an example of their innovation, Terry was the front cover beekeeper of the December 2001 issue of the Hivelights Magazine. The photo features him storing four way mating nucs with queens for wintering in temperature controlled sheds. They both worked with Kerry Clark to develop slow release formic acid treatments for mites.

In 1992, Liz partnered with Kerry Clark, BC Provincial Apiary Specialist, to successfully breed bees resistant to the tracheal mite. Elizabeth has led investigations with the BC Bee Breeders Queen Testing Program (2006-2008) searching for the most varroa mite resistant queen stock in Canada as well as, advising on breeding projects in the United States. She bred and tested bee stock for two research projects looking to identify markers for hygienic and varroa sensitive behavior using proteomics, collaborating with Dr. Leonard Foster of the University of British Columbia, Dr. Marta Guarna and Dr. Stephen Pernal of Agri-



Terry and Elizabeth Huxter with Stan Reist

culture and Agri -Food Canada and Dr. Robert Currie of the University of Manitoba and others. Recently, 2015, she investigated the impact of sub-lethal levels of neonics on hygienic behavior collaborating with Dr. Marta Guarna and Dr. Jeff Pettis. Her current focus is to monitor and breed from Kettle Valley Queen's survivor colonies to optimize but not necessarily maximize apiculture. Terry and Liz have given numerous talks and workshops on their sustainable and integrated practices producing queens, nucs and honey. ■



**NEW DEALERS WANTED**

**MANY PRODUCTS IN STOCK**



**Nature's Taste Canada**  
Melancthon, Ontario  
Ph: 888.923.9813  
Email: [info@naturestastecanada.com](mailto:info@naturestastecanada.com)  
Web: [www.naturestastecanada.com](http://www.naturestastecanada.com)

**MANY NEW PRODUCTS FOR 2018!**

**COWEN**  
MANUFACTURING CO. INC.



[www.cowenmfg.com](http://www.cowenmfg.com)



**Technology and Nature working together sure is sweet!**

**"BUY COWEN"  
800-257-2894**

# Apimondia 2019



**46<sup>th</sup>** APIMONDIA

International Apicultural Congress

MONTRÉAL, 8-12 SEPTEMBER, 2019

QUÉBEC - CANADA

## REGISTRATION CATEGORIES & FEES

| Description                                    | Paid by<br>30 March 2019 | Paid after<br>30 March 2019 and on-site |
|--|--------------------------|---|
| Full Congress Entry Fee (member countries)     | 375 CAD                  | 445 CAD                                 |
| Full Congress Entry Fee (non-member countries) | 445 CAD                  | 520 CAD                                 |
| Full Congress Entry Fee (developing countries) | 225 CAD                  | 295 CAD                                 |
| Full Congress Entry Fee (groups more than 10)  | 300 CAD                  | 375 CAD                                 |
| Full Congress Entry Fee (student)              | 225 CAD                  | 225 CAD                                 |
| Daily Entry Fee (congress + exhibition)        | 150 CAD                  | 150 CAD                                 |
| ApiExpo Daily Entry Fee                        | 60 CAD                   | 60 CAD                                  |
| Accompanying Person Fee                        | 225 CAD                  | 225 CAD                                 |
| Technical Excursion (per person)               | 155 CAD/each             | 155 CAD/each                            |

REGISTER ON-LINE ON THE CONGRESS WEBSITE [WWW.APIMONDIA2019.COM](http://WWW.APIMONDIA2019.COM)

## TECHNICAL TOURS

### TOUR 1

#### Centre de recherche en sciences animales de Deschambault (CRSAD)

Over a hundred years old, this beautiful research center is located in a waterfront setting on the north shore of the Saint-Lawrence River 200 km east of Montréal. The research center campus is spread over 1600 acres of land containing research facilities, working farm, greenhouses and 250 honey bee colonies. Research activities are done here in collaboration with Université Laval, Université du Québec à Montréal, McGill University, and various beekeeping associations. The CRSAD honey bee research facility is equipped with modern beekeeping equipment and has an environmentally controlled wintering room.

### TOUR 2

#### Intermiel

Intermiel is a large-scale farm that manages the production of 6,000 beehives, runs a 15,000 tap sugar bush and a 600 apple tree orchard. Intermiel is recognized provincially and across North America for the quality and diversity of its products, as well as for its educational visits. Thanks to its agri-tourism orientation, it attracts more than 100,000 visitors a year, of which 15,000 are students from Québec schools. A visit to Intermiel is a feast for all the senses. During your visit, you will try out a beehive opening with a beekeeper in an enchanting garden, you'll discover how honey is made, and you'll learn more about the benefits of bee products. The visit will end with a tasting of our delicious gourmet products and our artisanal beverages. Take advantage of nature in the tranquillity of our vast property, have a picnic with family or friends under the trees, and visit our mini-farm to admire and pet our animals.

## ACCOMMODATION

Montreal offers a wide selection of hotels from Deluxe to cheap solutions; the best properties have been selected and good rates negotiated to host the APIMONDIA 2019 community. Information will be available from late 2017 on [www.apimondia2019.com](http://www.apimondia2019.com)

For information and hotel reservation please contact us at [apimondia2019.hotel@aimgroup.eu](mailto:apimondia2019.hotel@aimgroup.eu)

## The Canadian Bee and Honey Industry is currently facing a shortage of workers, which presents a unique opportunity for potential immigrants to Canada

I recently interviewed Paul Gregory of Interlake Honey Producers Ltd., a Manitoba-based and environmentally-friendly seed grower. In his view, the biggest factor facing the honey industry is the ability to find reliable workers to meet the demand and needs of the industry. It is becoming increasingly important for employers in the honey industry to identify and attract immigrant workers.

As older workers are set to retire, replacements are becoming more difficult to find. One factor contributing to this trend is the lack of growth in rural populations in Canada. While the Federal government is encouraging an increase in the number of immigrants to Canada, statistically few of these immigrants are choosing to settle in rural areas or to engage in rural farm work.

Due to these challenges, there exists an opportunity for foreign workers and immigrants to relocate to Canada for gainful employment in the bee and honey industry.

Employers who have been unable to recruit Canadian citizens or permanent residents for job openings, are able to take advantage of the Canadian government's Temporary Foreign Worker Program, which makes it possible for Canadian companies to hire workers from abroad. This Program can also assist employers with identifying qualified foreign workers who may already be in Canada... such as a foreign worker who is about to complete a job contract with another employer, or a foreign national holding an Open Work Permit (which allows that employee to work for any employer in Canada).

In the current climate of the bee and honey industry, the need for foreign workers has become increasingly relevant.

### How Can We Help?

Higgerty Law is a broad-service, technology-drive, and client-focused law firm located in Calgary, Alberta. With a Certified Immigration Consultant specializing in immigration law, Higgerty Law can assist both the foreign workers and their potential employers with accessing and utilizing the Temporary Foreign Worker Program and other aspects of the immigration process.

Canadian immigration policies have changed many times over the years, and will continue to do so. The immigration process often requires intensive research and detailed knowledge of rules and procedures. This can often be overwhelming for potential immigrants, especially while they are preparing to relocate to a foreign country. However, immigrating to a new country does not have to be a difficult experience for immigrants. Higgerty Law can assist new immigrants with navigating the immigration process, gathering the necessary documentation, and completing the requisite paperwork they need to be allowed entry into Canada.

If you are a foreign worker looking to temporarily or permanently immigrate to Canada, or if you are a potential employer, contact the experienced team at Higgerty Law to ensure that your personal or business immigration needs are met.



We have extensive experience in assisting with immigration applications, including Foreign Worker Program, Work Visa, Intra-Company Transfer, (Canadian Experience Class, Federal Skilled Worker, and Provincial Nominee Programs).

We would be pleased to assist you with your immigration needs! Contact us at:

Higgerty Law  
101, 440 2nd Avenue SW Calgary,  
AB, Calgary, T2P 5E9  
[www.higgertylaw.ca](http://www.higgertylaw.ca)

Phone: (403) 503-8888  
Email: [info@higgertylaw.ca](mailto:info@higgertylaw.ca)  
Toll-Free: 1-888-699-7826



Bees need both protein and carbohydrate for good build-up and large honey crops.

Feed protein patties in spring to ensure colony health, maximum build-up and maximum production

Be ready this spring. Save time, money, hassle and mess.

Call now and order

## Ready-Made Pollen Patties

made to *your* specifications

Global is faster, better and cheaper than your other options.

Order one of our standard formulas using yeast, soy, pollen\*, BeePro and sugar, or request your own recipe and patty size.

We'll supply all the ingredients, or use supplies you provide.

Call Mike at 1-866-948-6084 today  
or email [Mike@globalpatties.com](mailto:Mike@globalpatties.com)

Global Patties can be delivered in boxes or on pallets

Visit us at [www.globalpatties.com](http://www.globalpatties.com)

\*Pollen in our formula is irradiated by Iotron for prevention of bee disease

# Regional Reports



## Maritimes



Mario Swinkels

Well the cold has settled in. Winter in the Maritimes is usually a time of planning and preparation. Boxes and frames to construct as well as preparation of equipment. This is a good time to redo honey house equipment and redo trucks and trailers. This is also a good time to connect with other beekeepers. Each province will hold Annual General Meetings in February to March, I urge everyone to get out and take part in these meetings, there is a lot of knowledge floating around in the beekeeping communities.

Check your provincial websites for times and places. I have never gone to a meeting where I have not learned something.

A maritime executive meeting was held in December with participants from all Atlantic provinces attending, Nova Scotia, New Brunswick, Prince Edward Island as well as Newfoundland. All three provinces share similar problems. Pollination and all its problems were heavily discussed especially the Small hive Beetle. In talking with the Ontario cap representative they see SHB as a minor pest, and it seems they have stopped any controlled measures within their province. A pest is a pest, be it minor or major that is why borders are controlled from the USA to Canada. Once again your provincial organization is the ear to government on these issues.

PEI has already announced their Pollination expansion program for 2018. It is hoped that other Maritime provinces follow suit, check your provincial websites again for updates on any assistance that may be accessible. Blueberry growers seem to have a small sign of recuperation and honey prices are good within the Maritimes, so let's get our winter and spring planning laid out.

Finally it seems that clusters were small heading into winter and the long warm fall should have led to a lot of stores being used by the bees. Perhaps we should do an early check this spring and be ready for emergency feeding. Fondant and patties can be purchased as well plenty of recipes for winter and early feeding are available. Have a safe and happy winter.

## Québec



Scott Plante

There's a lot of snow on the ground and no heat in the foreseeable future. This has been a long and harsh December. This cold weather combined with smaller clusters in the fall could make for difficult conditions in the spring. Thankfully most of the hive are wintering inside.

Since the only constant in life is change, in 2018 the Québec Beekeeping Federation will be entering this new year with an all new executive at the helm. I wish all the best to this new team.

With Apimondia quickly approaching the Federation will be setting up a committee to assume its responsibilities in this event. The first meeting

of this committee is set for January.

Wholesale and retail honey markets remains strong and small honey packers are struggling to find local honey. Price are hovering around 2-2.30\$ a pound for white honey in bulk.

Negotiations for blueberry pollination have begun. In Quebec good hives at the time of pollination have twelve frames of bees of which eight contain brood. Prices for 2017 ranged from \$125 to \$145 a hive, with some contracts being signed at much higher than that. The 2018 prices remain to be established. Happy New Year.

Il y a beaucoup de neige au sol et pas de chaleur à l'horizon. Cela aura été un long et dur décembre. Ce temps froid combiné à de plus petites grappes à l'automne pourrait créer des conditions difficiles au printemps. Heureusement, la plupart des ruches hivernent à l'intérieur.

Puisque la seule constante dans la vie est le changement, en 2018, la Fédération des Apiculteurs du Québec entrera dans la nouvelle année avec un nouveau conseil exécutif à la barre. Je souhaite tout le meilleur à cette nouvelle équipe.

Avec l'approche rapide d'Apimondia 2019 la Fédération va mettre en place un comité pour assumer ses responsabilités lors de cet événement. La première réunion de ce comité est prévue pour janvier.

Les marchés du miel en gros et de détail demeurent solides et les petits empaqueteurs de miel ont du mal à trouver du miel local. Les prix sont autour de 2-2.30 \$ la livre pour le miel blanc en vrac.

Les négociations pour la pollinisation des bleuets ont commencé. Au Québec, les bonnes ruches au moment de la pollinisation ont douze cadres d'abeilles dont huit contiennent du couvain. Les prix pour 2017 variaient de 125 \$ à 145 \$ la ruche, certains contrats étant signés à des prix beaucoup plus élevés. Les prix de 2018 restent à établir. Bonne année.

## Ontario



Albert Devries

This past year has been filled with challenges. Regular rain in the spring contributed to very intense swarming as well as poor mating for queens. Poor mating conditions continued all summer for some producers mainly due to rain or cool temperatures. Low prices for pollination had many beekeepers hoping for a good honey crop that never materialized. Some areas became quite dry, but it was very cool when there should have been a honey flow. We did get heat in the end of September, but by that time most mite treatments were in and the supers were in the honey house. Estimates are that the honey crop was 50 to 75 percent of average. Bulk honey prices varied depending on when you sold your crop. Early season sales were 1.70 per lb. Prices moved as high as 2.25 by the end of October.

Looking ahead, small clusters that did not feed up well could add to wintering losses. We are currently experiencing an extended period of cold

► pag. 11



## Build stronger colonies in 2018!

“ The population increases rapidly and honey production increased. On average production per hive is approximately 25% more and the hives are more consistent in the production.”  
Donald Tweeddale (20,000 hives in New Zealand)

### The scientifically validated benefits of HiveAlive™

- +35% increase in amount of brood<sup>1</sup>
- +89% increase in colony population in spring<sup>2</sup>
- Intestinal well-being  
Healthy colonies
- Increase in honey production<sup>1</sup>

<sup>1</sup>Increase in honeybee populations with continued use of HiveAlive™. Results from long-term field trials, France 2014-2015, trial conducted by Veto-pharma, France. <sup>2</sup>Christou, L., Poulos, N & Hatjina, F. (2015) Long term effects of a food supplement HiveAlive™ on honey bee colony strength and Nosema ceriseae spore counts, Journal of Apicultural Research



HW/24-CA-101-121T

Available in Canada from:

Propolis-etc... urban bee  
Beekeeping Supplies - Natural Apiculture



Contact:  
Frederick Proni, North America Area Manager  
214-675-7464 or frederick.proni@vetopharma.com

Check out our other solutions to support honey bee health in Canada:



www.veto-pharma.com  
facebook.com/vetopharma



weather like most of Canada. In Ontario, the last two winters have been mild. It could be that we are in for a continuing cold winter and we will see what spring brings.

Personally, it was very nice to get out to Kelowna for the joint meeting with the BC Honey Producers Association, CHC and CAPA. There was a lot of discussion about Small Hive Beetle and how we are going to deal with the interprovincial movement of bees for pollination and honey production. The Ontario Beekeepers Association is looking forward to being able to host the next joint CHC/CAPA meeting in London on November 16&17, 2018. This past fall the OBA also had a well-attended meeting in conjunction with the Empire State Honey Producers Association in Niagara Falls. The agenda was filled with many great presentations from researchers and beekeepers. The OBA's spring meeting is going to be held at Blue Mountain Ski Resort in Collingwood March 22&23, 2018. The first day will focus on queen rearing while the second is about honey production. I hope to have some out-of-province beekeepers attend as these are always well-attended and enriching events.

## Saskatchewan



Dani Glennie

The Saskatchewan Beekeepers Development Commission held their annual convention in Saskatoon, Sk November 30th to December 1st. It was well attended with some 100 attendees and tradeshow presenters. The speakers ranged from Krispn Given apiculture specialist from the University of Perdue, Geoffrey Williams from Auburn University, Elemir Simko and Sarah Wood from the University of Saskatchewan, right to our very own Geoff Wilson, and Hannah Neil (TAT). The annual convention brings a wealth of information to all the that attend, and we

are grateful for the chance to come together as an industry and share in the information presented as well as that which is heard from others in the room after the speakers were finished. This type of event also brings all parts of the industry together to talk about trade, packing, and sales. The offers for honey sales were heard around the some of the tables ranged from \$1.55-1.60. Many are hoping that the price will climb here in the next few months and show a steady gain leading into next year's spring work.

The CHC Labour Committee was hard as work this last month writing a review of The Foreign Worker Program, we highlighted and addressed some 10 points of the program that need to be addressed. We also included examples of producers who dealt with these issues and how the program might be altered to manage this issues. The review was asking for contributions from all levels of use. The CHC, many provincial organization, and individual producers were also able to give their inputs on the program. The labour committee was also involved in the interim housing issue that had arose in the last little while and have had a few conference calls on them.

This will be my final report as I'm stepping down from the CHC, the new director for Saskatchewan will be Jake Berg and I hope he enjoys his time on the board as much as I have. Thank you for allowing me to serve the industry, and better my understanding of the beekeeping world as a whole. I would also like to wish you a Happy New Year.

## Manitoba



Allan Campbell

Please somebody tell me I am not the only one that's itching to get my hands calloused and sticky with propolis again already? The worst thing for me about this -50 wind chill weather at home this Christmas break is that my honey house doesn't smell like beeswax and honey anymore and won't again until spring time, it's far too cold! Until then at least I'll have the smell of sawdust from building and repairing bee equipment to carry me through.

To date I've marketed all of my honey, though it all hasn't been shipped out yet and from what I gather, that is pretty much the story across the prairies and certainly in Manitoba. It is great to see that pricing for prairie honey is continuing an even paced recovery and that sales movement seems to be pretty steady. (\$1.50-\$1.60 on the open bulk market at time of writing) Production overall may reportedly be down by about 2 million pounds across Canada, but I think in Manitoba we still proudly produced at least our fair share, if not a little bit more perhaps.

I am happy with how my bees looked going into winter and am thankful that for the time being at least, we still have plenty of good sheltered locations to use at home. In so many areas on the great plains we have lost good habitat and forage to mono-cropping practices and the farmer's growing need to farm the land from margin to margin. It's been nearly a decade since I've wintered all my bees outdoors, and in Manitoba, but I still have most of my favourite honey holes available with great shelter from those icy North winds and plenty of early spring and summer forage, we really do live in a land of plenty in the North. I may not be starting to work bees in February this year, like I have for so many, but I still remember what an awesome sight it is to see hives that come from a deep freeze in March snow banks to be absolutely bursting at the seams so quickly when that fresh pollen hits in Manitoba!

Congratulations to the BCHPA for hosting a wildly successful joint meeting in Kelowna, it was great to see so many familiar faces and friends come out to support the event. I think it was a great opportunity that we (CHC) were able to facilitate an open dialogue between our board, CAPA, and the provincial association's Presidents in a special meeting day. It was a great chance to interface, network and socialize and I think your input and cooperation will lead to many great things to come, not the least of which is the creation of an interprovincial movement committee which was struck and I am happy to lend my experience to and work with such a knowledgeable team. Moving bees for pollination is an important and sometimes contentious issue with complicated logistical concerns and must be managed with care so that all may prosper and that the growers get their crops adequately pollinated while at the same time no part of our industry is harmed. It is a practice that affects all provinces and each province's concerns must be taken into account.

It's been a busy year at honey council, there are myriad issues that face the industry today- fighting to keep out fake and fraudulent imports; lobbying for greater inspection and testing of imported honey; CFIA Honey labelling changes; continuing support of the CBISQT program; managing responses to pest outbreaks and other biosecurity concerns; our work with the bee health roundtable; working with PMRA on pollinator protection concerns; preparing for new antimicrobial regulation; supporting work on new medications; Apimondia planning; this is just scratching the surface of the workload and I am personally thankful for all of the hard work, time, and effort that my fellow directors, and also all of you who serve on the provincial boards, have dedicated to serving on behalf of beekeepers across the nation, and the work that's been done to advocate and espouse our community abroad.

I'd like to especially thank Kevin Nixon for his time chairing honey council, and to the other directors who are leaving us this year, it's been a genuine pleasure working with you. And of course, Rod Scarlett, who's tireless efforts abound. Your dedication to the success of this council and industry seems to know few limits. I hope all readers start considering plans to attend Apimondia2019 in Montréal, it will surely be an event to remember! I wish you all health, happiness and continued success in the new year, may your honey supers stack high and your brood chambers always be full!

# Apivar®

By Véto-pharma



 **Manufactured in France**  
to the highest quality standards

• Unique • Proven • Trusted •

## Apivar > The trusted strip



**One single application,**  
**up to 99% efficacy<sup>1</sup>**  
long period of protection



**Safe for honey**  
Safe composition of amitraz  
and plastic strip only<sup>2</sup>



**Not harmful**  
to brood and bees<sup>3</sup>



Worldwide  
**Varroa**  
treatment  
leader  
**30+**  
countries



**5+**  
million  
colonies  
treated  
per year

## varroa easyCheck

By Véto-pharma

**Varroa monitoring**  
**is now quicker, easier,**  
**and more reliable!**



[www.veto-pharma.com](http://www.veto-pharma.com)

 [facebook.com/vetopharma](https://facebook.com/vetopharma)

Contact: Frederick Proni, North America Area Manager  
214-675-7464 or [frederick.proni@vetopharma.com](mailto:frederick.proni@vetopharma.com)

1 - Efficacy tests: Anti-varroa treatments - FNOSAD [National Federation of Departmental Apilarian Health Organizations] 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015 and 2016 - France // 2 - Amitraz residue transfer into honey from Apis mellifera hives treated with Apivar® - Jeff Pettis, USDA-ARS, Beltsville, MD USA - 2013 // 3 - Apivar registration dossier (2015), Study 2026-2015 - Testapi

 **Véto-pharma**  
Committed to apiculture

## Alberta



Neil Specht

I'm Neil Specht the new delegate to CHC from the Alberta Beekeeper Commission. My appointment by Commission, is one year at a time.

I started off as a grain farmer with a bee hobby, then a side line beekeeper to a full on pollination beekeeper.

I have been active around bees and bee politics for over 40 years and a large commercial beekeeper for 28 of those years. Our business name is Sweet-heart Pollinators or Janeil Enterprises. We are a 4500 colony custom pollination outfit meaning we truck bees to pollinate hybrid canola. We operate on the west side of Saskatchewan (Eatonia, Kindersley) and the east side of Alberta (Oyen, Consort). This is not a traditional bee keeping area... so we have grown because of the pollination of seed canola. We started doing the first proof of concept garden plot for Tom Schuler with his Liberty Linked Canola in south western Saskatchewan, 29 years ago. We were the largest pollinators in Saskatchewan for many years until the seed companies moved their seed production to southern Alberta. We are now pollinating mostly in the Bow Island area. All of my family have an interest in bees and many are involved in their own bee businesses.

I am a long time member of Alberta Honey Producers Coop and served on the board of directors for BeeMaid Honey for 18 years and as chairman for at least eight but am now retired from that position. Through my life I've served on many other boards over the years, the SBA ( part as CHC delicate), SABA, and ABA in the bee industry. Outside the industry I have been elected to and chaired the local school Board 20 years and served on my local United Church board for life, I think ( I believe you have to die to get off that one). I have attended many American and international bee events. I'm familiar with many of the bee industries issues provincially, nationally and internationally. What I'm saying is I'm familiar with the work and I'm honoured to be asked to be part of honey council. I'm looking forward to being part of organizing 2019 Apimondia.

## British Columbia



Stan Reist

There isn't a lot going on right now. The B.C.H.P.A. has been approved to be in the Blueberry study and we are working on the details at this time. There doesn't appear to be many losses from all the forest fires last summer, so we are thankful for that. There is Government support for those that did and the B.C.H.P.A. also has some donations available to assist those who lost their hives. We are still waiting on hard numbers to see what we are dealing with.

The B.C.H.P.A.'s A.G.M. in Kelowna was a huge success, thanks to the support from C.H.C. and C.A.P.A. The rapid fire presentations were really well received and enjoyed. Randy Oliver from California gave some really good talks as did Jerry Hayes from Monsanto and Ian Stepler from Manitoba.

The spring meeting of the B.C.H.P. A. in Kamloops was a sell out for space due to the Education Seminars that we were presenting. This was a first for our organization, we have never been in the position to run out of space for our members to attend education seminars, in the time I have been involved with the association. At the AGM in Kelowna, we sold out for space to attend. I can remember when the Semi Annual and AGM, we had one and two day meetings. We would drive to Kamloops on Friday, the Meeting was held in the Health Centre Saturday, we would be finished about 3:30 in the afternoon and we would be on our way home. The AGM was held on a Friday and Saturday was education. We started presenting better and more education, everyone worked hard and now this is where we are.

I can't do justice to the event in this Colum but if you can get your

hands on a copy of the Winter 2017/2018 Bee Scene. Heather has done a marvelous job of doing that.

I was honored to present Liz and Terry Huxter with the Fred Rathjay Award, for Liz's work in the industry with Queen rearing and stock improvement. Liz has travelled far and wide talking to groups in Canada and the USA. With all good experimenters, you need stock to work with and Terry has been able to keep up with that. Liz and Terry also were presented their life Membership awards for our Association. Congratulations for all your hard work.



Bernie Rousseau



BeeMaid Honey is pleased to announce that Derrick Johnston was the recipient of the Willy Baumgartner Award presented by the Canadian Honey Council .The award was presented at the AGM in conjunction with the BC Honey Producers Association Conference on October 2017. Derrick is the Manager of Bee Supplies and Members for Bee Maid Honey in Spruce Grove AB. This award is presented annually for Outstanding Service to the beekeeping industry in Canada. Derrick has worked in the industry for more 35 years and is held in high regard by everyone in the honey producing industry. Bee Maid Honey wishes to congratulate and thank Derrick for his continued excellent service and support to the Canadian beekeeping.

Mike Gordon, from Bee Outfitters in Winnipeg, was invited by Vêto-pharma (manufacturer of Apivar, Bee Outfitter's best-selling mite control medication) to France for seminars October 16-20th. Vêto-pharma has a building they call EVA, (Espace de Valorisation de l'Abeille or Honey Bee Valuation Centre). EVA is a bee education Centre and collective extraction facility. They have a built-in honey house with equipment that hobbyist beekeepers can use for free to extract and bottle their honey and process wax. It exists to promote beekeeper trade and enhance beekeeping activity.

Vêto-pharma also has a lab nearby called Wyjolab, where they make Apivar and other animal medications. Mike reports that it was one of the cleanest buildings he had ever been in with pallets being washed before they are allowed in the building!

Mike was also privileged to visit one of Vêto-pharma's apiaries, where their resident beekeeper, Gaol, has a Biology degree, looks after 150 hives. They do ongoing research into the Varroa mite, beekeeping's number one enemy. Their biggest problem is a lack of mites so they have to keep some hives infested with mites for testing.

Mike's trip was a complete enjoyable educational success except for the fact his luggage arrived home the day after he did. Apparently it took a side trip to Yemen!

## Chilean Package Bees and Queens

Tube Style Packages - Carniolan Stock Queens

For ordering, please contact:

Oaknook Honey Products Ltd.  
Ph: (204) 548-4060  
Em: info@oaknookhoney.com



**NOD**  
NATURAL OIL DERIVATIVES  
— APIARY PRODUCTS —

EXTENDED SHELF LIFE

**FORMIC PRO**

FOR TREATMENT OF VARROOSIS  
CAUSED BY VARROA DESTRUCTOR IN HONEY BEES (APIS MELLIFERA)

**- REGISTRATION PENDING -**

FORMIC PRO™ is the newest product available to beekeepers that causes mortality to both male and female varroa under the brood cap as well as to the varroa on the adult bees. FORMIC PRO™ is to be used as part of an integrated pest-management (IPM) program.

FORMIC PRO is a 24-month extended shelf life formulation and doesn't require any temperature controlled storage.

Learn more at [www.nodglobal.com](http://www.nodglobal.com)



### Mite Away QuickStrips

FORMIC ACID POLYSACCHARIDE GEL STRIPS FOR THE TREATMENT AND CONTROL OF VARROOSIS CAUSED BY THE VARROA DESTRUCTOR IN HONEY BEES (APIS MELLIFERA).

|  |   |
|--|---|
| <b>7 DAY</b><br>2 STRIPS<br>APPLIED ONCE | <b>21 DAY</b><br>1 STRIP<br>APPLIED TWICE |
|  |   |

APPLY 2 STRIPS AT DAY+0 FOR 7 DAYS.

APPLY 1 STRIP AT DAY+0 FOR 7 DAYS. ON DAY+14, REMOVE AND REPLACE WITH A SECOND SINGLE STRIP FOR AN ADDITIONAL 7 DAYS.



Slip-on our UV treated polypropylene wrap that contains environmentally friendly R8 fiberglass insulation. Protect your honey bees from the freezing winter temperatures and provide a windbreak for breezy locations. Bees will brood up faster, so you can split earlier in the spring and be ready for the honey flow.



*Healthy Bees. Healthy Planet.*

Now available through your beekeeping supply company

866-483-2929|613-398-8422|[www.nodglobal.com](http://www.nodglobal.com)|[info@nodglobal.com](mailto:info@nodglobal.com)

# HEAT IN THE HIVE

## Infrared spying on warm worker honeybees in colonies entering winterization

Peter G. Kevan<sup>1</sup>, Patricia Nunes Silva<sup>1</sup>, Rangarajan Sudarsan<sup>2</sup>, Hermann J. Eber<sup>2</sup>

<sup>1</sup>School of Environmental Sciences, University of Guelph, Guelph, ON N1G 2W1

<sup>2</sup>Department of Mathematics & Statistics, University of Guelph, Guelph, ON N1G 2W1

**H**oneybee colonies are active and warm all winter long. Beekeepers winterize their hives in various ways. Where winters are not that severe in eastern Canada and the Pacific coast, some insulation, winter wraps, and colony management is enough to see the bees through the winter. In the prairies, where winters are long and cold, indoor wintering is mostly practiced. Whatever the overwinter-

understand better those regimes during overwintering. For that reason, it is important to understand the temperature within the hive during the winter.

The heat generated within honey bee colonies has been studied for over 200 years. Huber (1814) made some of the first observations. Since then numerous scientific studies and reviews have been made on that well-known phenomenon. The methods have used

by Dutchman's Gold Inc., Carlisle, Ontario, a major honey producer with over 1,500 hives, we used infrared thermography to measure and record the temperatures of clusters and individual workers of honeybees. The pictures we captured are, we think, spectacular and interesting. We present the false colour infrared (IR) pictures alongside digital photographs taken simultaneously with our FLIR E6 infrared camera (thermal sensitivity: <math><0.06^\circ\text{C}</math>).

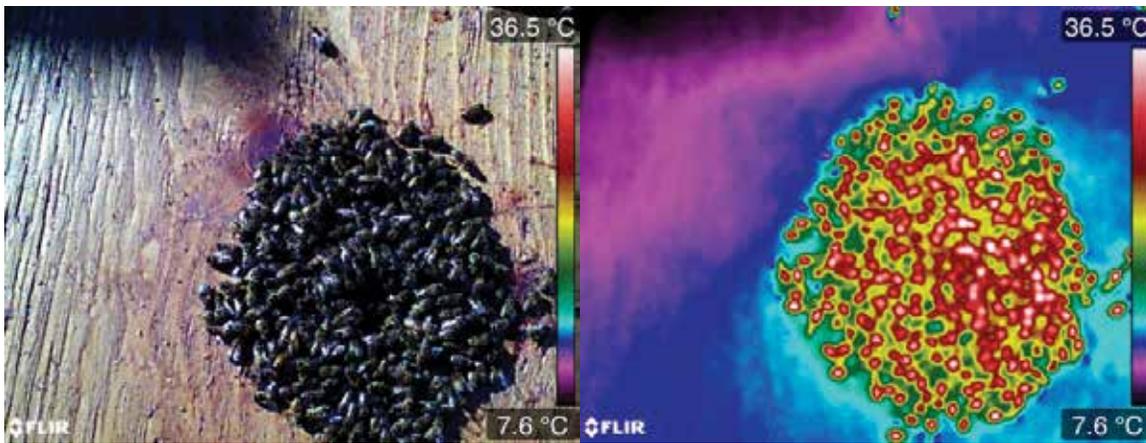


Figure 1. Digital (A) and false colour infrared images (B) of a bee cluster on the hive cover.

ing strategy, attention is paid to allowing the colony to maintain its health while consuming the minimum of food over the winter. It is the food, honey or sugar syrup, that provides the energy for the bees to maintain cluster temperatures over winter.

The team at the University of Guelph, using computer simulations, has produced cutting edge understandings of humidity, carbon dioxide and thermal conditions experienced by the colonies inside the hive under various summer conditions (Sudarsan et al. 2012). We are now working on trying to

various means of thermometry, including electronic devices such as thermocouples and thermistors (Hartfelder et al. 2013). During preparations for overwintering hives operated

Figure 1 shows workers surging from the warm interior of the hive through the hole in the inner cover (A and C). The surface temperature of the cover is around 10 – 12 °C and appears blue and purple on the false colour photograph (B and D). The centre of the bee cluster has an average temperature of about 26°C, with individual workers having mean thoracic temperatures of 29.5°C (white on the false colour scale).

Figure 2 and the Cover are photographs of the top of the brood chamber. The top bars of the frames, clusters of bees and individual

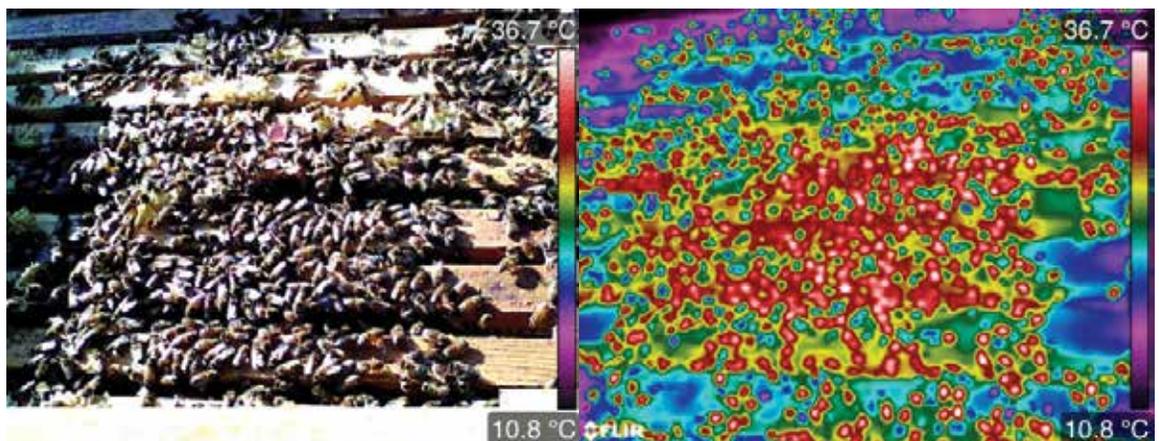


Figure 2. Digital (A) and false colour infrared images (B) of the top of the brood chamber.



# PROMOTING *Responsible Beekeeping!*



apihexsupplies | 
 apihex | 
 apihexbee

www.aphex.ca | 1 (855) 666 3233  
 Quebec: 500 Rue Léger, Rivière-Beaudette QC J0P 1R0  
 Ontario: 230 Hanlon Creek Boul Unit 105, Guelph ON N1C 0A1  
 Alberta: 415 60th Avenue SE unit 4 Calgary, AB T2H 2J5



ODEM INTERNATIONAL INC.  
YOUR PARTNER  
IN SALES



**WE BUY HONEY & WAX**  
 ASK FOR ADAMO, SÉBASTIEN OR NORMAND  
 1 800 567-3789 | info@honey.ca | odem.ca



**THANK YOU FOR  
ANOTHER GREAT  
SEASON!**



**LOOK FOR NEW PRODUCTS  
IN THE NEXT EDITION!**



Stay **UP-TO-DATE** with our new products by downloading  
 our **HONEY CATALOGUE** at [www.dominiongrimm.ca](http://www.dominiongrimm.ca)  
 New products are **ALWAYS** being added!!

D&G supports Canadian manufacturers!

[jenny@dominiongrimm.ca](mailto:jenny@dominiongrimm.ca)

**1 877 676 1914**



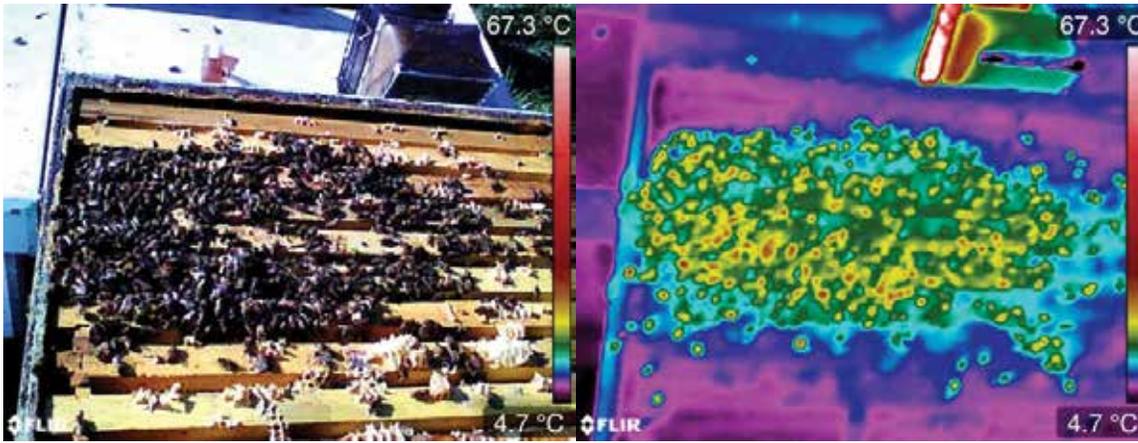


Figure 3. Digital (A) and false colour infrared images (B) of the top of the brood chamber and the smoker on the right corner of the photographs (arrow).

workers are easily visible in the normal photograph. The false colour infrared image shows the range of temperatures from areas without bees (green, blue and purple, about 20°C) to the white (average 31.4°C) hot spots corresponding to the thoraces of thermoregulating workers.

Figure 3 is similar to Figure 2, but is included to show the heat of the combustion chamber of the smoker (white, at 80°C) and Figure 4 shows the gloved hand (orange, average of 16.5°C) of the beekeeper at work. Note that the temperature at the center of the cluster is higher (white and yellow) than the borders (orange), but that warmth raising from between the frames can be seen as coloured lobes beyond where the bees are evident in the familiar image. The tops bars of the frames (blue) are at about 8°C.

In all the pictures, we note that not all the workers are thermoregulating (some do not show colours corresponding to high temperatures). In general, though, the bees that are actively thermoregulating when exposed to the ambient air at about 11°C, have an average thoracic temperature of  $30.4^{\circ}\text{C} \pm 2.5^{\circ}\text{C}$  ( $n = 32$  individual bees).

Infrared thermometry has been used to measure the temperatures of other social insects, including individuals of carpenter bees and wasps in detailed physiological studies (Plotkin et al. 2005, Volynchik et al. 2006). The method has not been widely used for honeybee studies, but has been advocated for estimating the sizes of overwintering populations within hives (Shaw et al. 2011) and study the heat dissipation by them (Bonoan et al. 2014). As winter continues, we expect to use our FLIR E6 infra-

red camera to measure the heat loss from winterized hives as part of our broader studies, and to determine the location and size of the bee cluster in the hive, which will be important parameters for our computer simulations.

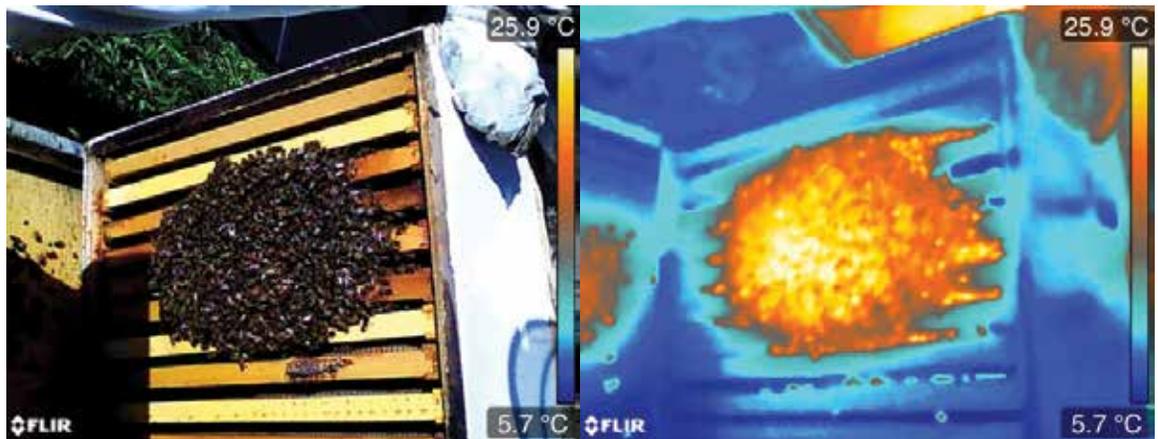


Figure 4. Digital (A) and false colour infrared images (B) of the top of the brood chamber and the gloved hand of the beekeeper on the right corner of the photographs (arrow).

### Additional Reading

- Bonoan, R.E., Goldman, R.R., Wong, P.Y. and Starks, P. T. (2014) Vasculature of the hive: heat dissipation in the honey bee (*Apis mellifera*) hive. *Naturwissenschaften* 101: 459.
- Hartfelder, K., Bitondi, M. M. G., Brent, C. S., Guidugli-Lazzarini K. R., Simões, Z. L. P., Stabentheiner, A., Tanaka, E. D. and Wang, Y. 2013. Standard methods for physiology and biochemistry research in *Apis mellifera*. *Journal of Apicultural Research* 52: 1 – 48.
- Huber, F. 1814. New observations upon bees. Translated by C. P. Dadant (1926). *American Bee Journal* Volume II, Chapter VII, pp. 183 – 198.
- Moritz, R. F. A. and E. E. Swithick. 1992. *Bees as Superorganisms: an Evolutionary Reality*. Springer-Verlag, Berlin. 395 pp.
- Omholt, S. W. 1987. Thermoregulation in the winter cluster of the honeybee, *Apis mellifera*. *Journal of Theoretical Biology* 128: 219 - 231.
- Owens, C. D. 1971. *The thermology of wintering honey bee colonies*. United States

Department of Agriculture Technical Bulletin 1429, 32pp.

Plotkin, M., Ermakov, N. Y., Volynchik, S., Barkay, Z., Bergman, D. J. and Ishay, J. S. (2005) A thermoregulatory center in hornets: IR photography. *Microscopy Research and Technique* 68: 321–328.

Shaw, J. A., Nugent, P. W., Johnson, J., Bromenshenk, J. J., Henderson, C. B. and Debnam, S. (2011) Long-wave infrared imaging for non-invasive beehive population assessment. *Optics Express* 19: 399-408.

Stabentheiner, A. H., Pressl, T., Papst, N.,

Hranassig, N. and Crailsheim, K. 2003. Endothermic heat production in honeybee winter clusters. *Journal of Experimental Biology* 206: 353 – 358.

Sudarsan, R., Thompson, C. G., Kevan, P. G., and Eberl, H. J. 2012 Flow currents and ventilation in Langstroth beehives due to brood thermoregulation efforts of honeybees. *Journal of Theoretical Biology* 295:168-193

### Acknowledgements

We thank the Natural Sciences and Engineering Research Council of Canada (NSERC-Discovery Grant RGPIN-2011-8098 to PGK and NSERC-Engage Grant to HJE NSERC EGP 507183-2016) Scientific Computing Based Improvement of Wintering Configurations of Beehives)) and Conselho Nacional de Desenvolvimento Científico e Tecnológico do Brasil (CNPq) Grant No. 201568/2017-9 to PNS for support. We thank especially John Van Alten of Dutchman's Gold Inc. for the support, collaborations and enthusiasm we have received. ■



**National Bee Diagnostic Centre  
Technology Access Centre**

**Comprehensive diagnostic services for  
the Canadian Beekeeping industry.**

- Nosema Spore Count & Identification
- Tracheal Mite Detection
- EFB Detection
- AFB Detection & Antibiotic Resistance
- Varroa Count
- Virus Detection & Quantification
- Antibiotic Residues in Honey
- Pesticide Residues in Honey, Bees & Pollen

**GPRC National Bee Diagnostic Centre**  
Beaverlodge, Alberta  
780.357.7737  
NBDC@gprc.ab.ca  
www.theNBDC.ca



**Propolis-etc...**  
Beekeeping Supplies



**Perfecting the technology  
for beekeepers**



Up to  
1 ton  
per hour!



We are the North American Distributor

**Vermont Flexi Pumps**

Manufacturer & Supplier of Quality Pumps for the Food & Beverage Industry

The best pump for honey even if it contains slurry wax.  
Mounted on a stainless steel plate.  
Forward and reverse - food grade - flexible impeller.  
Fixed or Variable Speed.  
Available sizes : 1 1/4" - 1 1/2" - 2" - 2 1/2" - 3"



View all of our products at :  
[www.propolis-etc.ca](http://www.propolis-etc.ca)

888-660-6665

Like the page!



**Early Queen Arrivals**

Providing queens to beekeepers since 2001

**Queens from Australia, California and Hawaii**

- plan now for 2018
- order early to ensure your requests
- quality service and reasonable pricing for early season: splits, re-queening or pollination needs
- shipping from Toronto
  - by air (Air Canada) to major Canadian centres
  - by courier (Priority Post) to Ontario destinations

Arrival  
dates through  
April and May.  
Confirm final  
orders by mid  
February.

Contact Peter Mewett | Phone: 613.395.3225 | Fax: 613.395.1835  
Email: pmewett@hotmail.com | www.earlyqueenarrivals.com

**LARGEST IN-STOCK SELECTION  
OF BEEKEEPING AND HONEY  
EQUIPMENT IN ATLANTIC CANADA!**



**We have all your beekeeping  
needs at competitive prices**



**Competitive  
Prices  
Bulk order  
Discounts  
Open  
Year Round**

**Have a look  
at our  
expanded  
product line!**

14 Pine Grove Lane,  
Waverley, NS B2R 1R1  
Ph: 902-576-3079  
1-877-505-6363  
info@countryfields.ca

[www.countryfields.ca](http://www.countryfields.ca)

Canadian Distributors for KAPTARLIFT Manual and Electric Hive Lifts



Box 99  
Grouzville, AB  
T0H 1S0 Canada  
Ph: 780-323-4183  
Fax: 780-323-4138  
www.paradishoney.com  
E-mail: mikelise@serbernet.com

**WE PURCHASE AND  
RENDER BEESWAX.  
CALL MIKE FOR  
PRICES**

Rendering beeswax for over 50  
years...

# Improving Honeybee Queen Shipping Methods

## Investigators:

**Name:** Andrée Rousseau, M.Sc.

**Institution:** Centre de recherche en sciences animales de Deschambault

**Address:** 120-A Chemin du Roy, Deschambault (Québec), GOA 1S0

**Email:** andree.rousseau@crsad.qc.ca

**Telephone:** (418) 286-3353 p. 272

**Name(s):** Pierre Giovenazzo, Ph.D.

**Institution:** Université Laval

**Address:** Pavillon Vachon, 2325 Rue de l'Université, Québec City, QC G1V 0A6

**Email:** pierre.giovenazzo@bio.ulaval.ca

**Telephone:** (418) 656-2131 poste 8081

**R**ecent studies have documented adverse conditions in Canadian and USA honeybee queen shipments. The first objective of this project was to measure environmental conditions experienced by queens shipped from USA and within Canada. Data loggers recording temperature and relative humidity were installed in packages of commercial honeybee queen shipments

from one Californian operation and one Quebec operation during spring and summer 2017. Sixteen queen shipments were followed. Results show minimum / maximum temperature of 12°C / 34°C and minimum / maximum relative humidity of 27% / 68%. Shipments took an average of 31 hours to reach their destination (maximum distance of 4 800 km; range 20 – 64 hours).

The second objective of this project was to test different queen shipping methods (cage models and presence of attendant worker bees within the cages) on the internal cage temperature, queen survival and sperm viability of the queens. We compared four shipping treatments (see Figure 1): 1) Jz-Bz® plastic battery shipping boxes with 4 attendant worker bees inside individual queen cage, 2) Mini Riteway® cardboard shipping boxes with 4 attendant worker bees inside individual queen cage, 3) Jz-Bz® plastic battery shipping boxes with 4 attendant worker bees inside individual queen cage + 250 loose bees inside each box and 4) Mini Riteway® cardboard shipping boxes with 4 attendant worker bees inside individual queen cage + 500 loose bees inside each box. Shipping methods were exposed to 6°C, 26°C and 40°C for 2 hours. A total of 72 queens were randomly distributed in one of the four shipping treatments. Survival of queens and sperm viability were measured



Figure 1. Experimental shipping treatments : 1) Jz-Bz® Jz-Bz® plastic battery shipping boxes with 4 attendant worker bees inside individual queen cage, 2) Mini Riteway® cardboard shipping boxes with 4 attendant worker bees inside individual queen cage, 3) Jz-Bz® plastic battery shipping boxes with 4 attendant worker bees inside individual queen cage + 250 loose bees inside each box and 4) Mini Riteway® cardboard shipping boxes with 4 attendant worker bees inside individual queen cage + 500 loose bees inside each box.



Rough Terrain Forklifts

Visit our new website  
[www.hummerbee.com](http://www.hummerbee.com)  
to learn about all of our  
other available models:

**XRT XL XT<sub>2WD</sub>**

The classic Hummerbee  
just got even better...

## **TURBO II**

The Hummerbee Turbo is now more powerful, smoother, and faster than ever. Now featuring 56 hp being produced by a Tier 4 emissions compliant, Kohler turbo diesel engine. Diesel exhaust fluid is NOT required.

More power, a new maintenance - free articulation joint, easy to use joystick mast controls, digital gauge display, a quieter, redesigned transfer case, and the highest lift capacity in its class while being even more compact than before, make the Turbo II the most exciting Hummerbee yet.

# **A & O FORKLIFT**

[www.hummerbee.com](http://www.hummerbee.com)



Call A&O Forklift to order today  
**800-943-8677**

at the end of the experiment. Results show that the addition of loose bees inside queen shipments regulates temperature within shipping boxes when exposed to low temperature; loose attendant bees were able to keep the inside temperature above 25°C while temperature decreased down to 15°C without them (Figure 2). Exposition to 6°C and 40°C for two hours resulted in an average decrease of sperm viability

of 12% ( $\pm 8,6\%$ ) compared to the control group exposed to 26°C. The last objective will be accomplished in 2018; queens will undergo various shipping methods and will be introduced in colonies. Survival and performance of these queens and their colony will be recorded until spring 2019. This study will offer novel information on queen shipping conditions and will help improve honeybee queen shipping conditions.

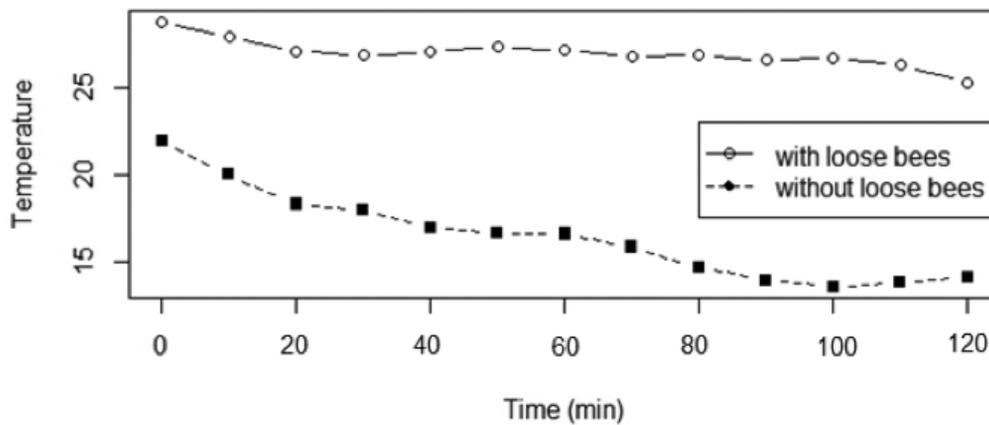


Figure 2. Thermoregulation inside queen shipping cages with or without loose bees when exposed to 6°C for two hours.

**Start Date:** May 2017

**End Date:** March 2019

**Funding Sources:** Agriculture and Agri-Food Canada, Centre de recherche en sciences animales de Deschambault, Canadian Bee Research Fund, Bee Maid, Api-Culture Hautes Laurentides, Pope Canyon Queens

# Bees-at-law

by Noël Sweeney

The writer of the comprehensive work *Bees-at-Law* is a barrister with a special interest in animal law, so he brings a depth of knowledge to a fascinating subject. The book examines and explains in detail the legal status and rights of these complex creatures, and the rights and responsibilities of those who keep and benefit from them. Many cases which came to court in several jurisdictions, covering, among others, nuisance, danger and negligence, are covered. Are bees wild or domesticated creatures? Are they, as the Roman Jurist Justinian defined, *ferae naturae*, or *domitiae naturae*?

He defined the status of the bee thus:

‘Bees are wild by nature; and so if a swarm alight on your tree, it is not to be considered yours, until you have hived it, any more than the birds which build their nests there; and hence, if it be hived by another, it becomes his property ...’

A wealth of facts about bees have been researched – the Apiarist Minister in Australia who in 1885 introduced the idea of a bee sanctuary on Kangaroo Island, the Manchester Bee, that symbol of the industrious textile workers who created the city’s wealth, the fact that,

under Islamic and Jewish law, bees were unclean, but honey was not, and the use of the western honeybee to sniff out illegal drugs, as they have proved to have an acute ability to respond to the presence of pure cocaine and heroin.

The bee is a potent symbol, evoking many concepts applicable to the human condition, and Sweeney’s final chapter, *Searching for the Soul of a Bee*, takes us further into the sphere of our relationship with the bee, and indeed other creatures. The concept of the soul, who has one and who does not, is a device useful for human purposes in that we

can categorise living beings by this yardstick and treat them well or badly according to our categorisation. Sir William Petty, 17th. century English economist, scientist and philosopher, maintained that ‘[bees] souls seem... like the souls of men.’

Sweeney highlights the many dangers bees currently face at our hands, a recent instance of which is the controversial use of neonicotinoid poisons sprayed on crops.

Sweeney contends: ‘Wherever they are harmed by our pesticides and suffer from indiscriminate spraying they are ‘entitled’ to be protected from us... Bees need a legal ‘personality’ to match ours and their own.’ To sum up, bees need justice, but, if as Sweeney says, ‘you are designated to be a thing as a matter of law’ you are outside the protection of the law. *Bees-at-Law*, which encompasses so many spheres in which the human animal and the bee try to co-exist, could be

unique, and it is highly recommended.

*Bees-at-Law* by Noël Sweeney.

First published 2017 by Alibi, an imprint of Veritas Chambers.

ISBN 978-1-872724-04-1

Available from Amazon at £51, but at £35 direct from the publisher. It can be ordered from the web site: [www.bees-at-law.co.uk](http://www.bees-at-law.co.uk) ■





## BUSY BEEKEEPING SUPPLIES

A complete line of beekeeping and candlemaking supplies  
We buy and sell BEESWAX

20 County Rd 1 TOLEDO, ON K0E 1Y0  
613 275 1112 busybeesupplies@hawk.igs.net  
www.busybeekeeping.com



## POELMAN APIARIES Ltd.

Jerry Poelman  
Ph: 1-403-687-2440  
pollenpal@gmail.com  
www.palbee.ca

We render and purchase all grades of beeswax.  
We sell wax, pollen, and metal lids cut to your specs.

**Paradis Valley HONEY Ltd.**  
WATINO, ALBERTA

Danny & Ginette Paradis  
PH: 1-866-624-8175  
FAX: 1-866-240-7664  
Email: forpollen@gmail.com  
www.paradisvalleyhoney.com

Canadian honey and pollen sales  
Purchasers of fresh Canadian bee pollen

Have a honey of a day!

**Miel Labonté Honey Inc.**

**HONEY WANTED**

530, rang Nault, Victoriaville, Quebec, Canada, G6P 7R5  
PH: (819) 758 3877 FAX: (819) 758 9386  
jm.labonte@labonteinc.com

Proud sponsor of the Canadian Honey Council

**Honey Wanted**

**FOR CURRENT MARKET CONDITIONS  
CALL – GAIL WYANT  
1-800-265-4988 Ext. 3322  
e-mail: gail\_wyant@mccormick.com**

**Trusted By Beekeepers  
for Over 50 Years!**

**McCormick Canada,  
600 Clarke Road, London, On.  
N5V 3K5**

**Fax: 519-673-0089      www.billybee.com**

**IOTRON**  
Industries Canada Inc.

**Hive Contamination Management**

lotron provides a solution for today's bee colony problems. lotron's treatment program provides Apiculturist's a cost effective and environmentally friendly solution for managing common beehive contaminants. lotron's Electron Beam irradiation treatment is proven effective for eliminating AFB and Nosema from comb, pollen, and wax. lotron's treatment method penetrates through materials like an X-Ray, yielding superior results and does not leave any residues. The lotron treatment allows beekeepers to reduce the need of antibiotics and other interventions. lotron's Electron Beam irradiation treatment program is an advanced IPM tool for working on today's complex issues.

Please contact lotron for more information  
lotron Technologies Corp.  
1425 Kebet Way, Port Coquitlam, BC V3C 6L3,  
Tel: 604 945-8838 Fax: 604 945-8827  
Email lotron@iotron.com Website www.lotron.com

**Certified System**  
ISO 9001  
OMI-SAI Global



## 12<sup>th</sup> Apitourism Day and 20<sup>th</sup> May – World Bee Day

**Slovenia has first certified Apitourism providers and  
first licensed Api – Tourist Guides in the World!**

Apitourism Day was organised for the twelfth time on 1<sup>st</sup> December at Brdo pri Lukovici, where the City of Ljubljana was given the 2017 Golden Award for the most bee-friendly Slovenian municipality. A more intensive structured and comprehensive care of bees in the City of Ljubljana started in 2015 when the Bee Trail came to life. It connects everyone who cares for the well-being of bees in the city. There are 32 of them today including institutions connected to culture, education and health, companies, non-governmental organisations and beekeepers. The trail was designed by the Section for the Development of Rural Areas, which is a part of City's Department for Environmental Protection. So guests in Ljubljana can see the City Apiary in the University Botanic Gardens Ljubljana, the Pyramid Nectar Plant Garden in Council of Europe Park in front of the Cankarjev dom Centre, Grba Nectar Plant Garden etc. They can also attend a guided tour of the Bee Trail that takes guests around Ljubljana centre and reveals the presence of little bees at various points. Even on building façades. In 2017, the Bee Trail was given a European prize – the URBACT Good Practice Award. The capital city of Slovenia is well aware of the positive things brought by bees and we are not talking just about pollination and the crops that are heavier because of that. No, we are also talking about apitourism, which is becoming more and more recognizable and important at home as well as abroad despite the fact that it is only making its first steps. Slovenia is one step ahead of the rest of the world because the Slovenian Beekeepers' Association (SBA) and the Aritours Travel Agency started with the certification of apitourism providers years ago. The system is similar to hotel stars except that in our case we are talking about grading providers with 1 to 3 bees. In this way visitors and tourist organisations know what they can expect when they come for a visit. Four more providers went through the certification process this year so the number of providers has increased to 39. The providers are also members of the Apitourism Providers Section, which handles promotion activities and the [www.apiturizem.si](http://www.apiturizem.si) webpage. It seems beekeepers as well as tourist guides have recognised the opportunities in apitourism. The Slovenian Professional Guides Association and SBA have shaped a new concept – an apitourist guide. In two seasons we have gained the first apitourist guides in the world – 22 have been trained so far. And in 2018, when World Bee Day will be celebrated for the first time on 20<sup>th</sup> May, this is how the visitors will be introduced to Slovenia, the land of excellent beekeepers – in a way completely unknown to the rest of the world. Preparations are already taking place for the organisation of trips for groups that will be present at the first celebration. Beekeepers as well as tourists will be taken care of. These arrangements, however, will not be offered just at the celebration of World Bee Day on 20<sup>th</sup> May, but rather throughout the year. For more information and applications contact us at [info@apiroutes.com](mailto:info@apiroutes.com).

Mrs Dominika Koritnik Trepel  
Secretary of Slovenian Professional Guides Association

and  
Mr Blaž Ambrožič  
President of Sections for Apitourismus  
[blazambrozic@gmail.com](mailto:blazambrozic@gmail.com)

Mr Boštjan Noč  
President of Slovenian Beekeepers Association



Slovenia, 6<sup>th</sup> December 2017





**Fraser  
Auction  
Service Ltd.**  
Brandon, Manitoba

**SERVING BEEKEEPERS  
IN ALBERTA, SASKATCHEWAN,  
AND MANITOBA  
FOR OVER 20 YEARS**

If you are thinking  
of buying or selling,  
please call

1-800-483-5856 or 204-727-2001  
Fax: 204-729-9912

or check our website:  
[www.fraserauction.com](http://www.fraserauction.com)

**VESPER  
TRANSPORT LTD.**



**BUY YOUR BARRELS NOW!**



Your Economical Solution for Delivering Standard  
and Conical drums wherever you need!  
Offering bee hauling in Canada and freight  
all over North America!  
Call now for a quote!

Office: 1-250-499-5773 | Fax: 1-250-499-5752  
Email: [vespertransport@hotmail.com](mailto:vespertransport@hotmail.com)

**BC Bee Supply**

Beekeeping supplies & equipment.



We buy and sell - beeswax - bee pollen - propolis

1-866-747-2407 [www.bcbeesupply.ca](http://www.bcbeesupply.ca)

**WIPE OUT YOUR MITE PROBLEMS**

Safe and least expensive method for applying formic acid to  
control bee mites in honeybee colonies. Available at your  
local beekeeping supplier or call:

Telephone (519) 847-5333 Fax (519) 847-5340

E-mail: [info@munrohoney.com](mailto:info@munrohoney.com)



**TLS Tony Lalonde Sales Prt.**

**BUY**  
Honey  
Wax  
Propolis

**SELL**  
Beekeeping Supplies  
Extracting Equipment  
Used Equipment

Distributors for some or all  
of the supplies

**Alberta**  
Alberta Honey Producers Coop..... 780-960-8010

**Manitoba**  
Manitoba Honey Coop..... 204-783-2240

**Maritimes**  
Claude Hachey..... 506-546-6687

**Ontario**  
Mauric Honey..... 519-847-5333

**Quebec**  
Rejean Lambert..... 819-828-2549

**Saskatchewan**  
Tony Lalonde Sales..... 306-931-0155  
[tonylalondesales@sasktel.net](mailto:tonylalondesales@sasktel.net)

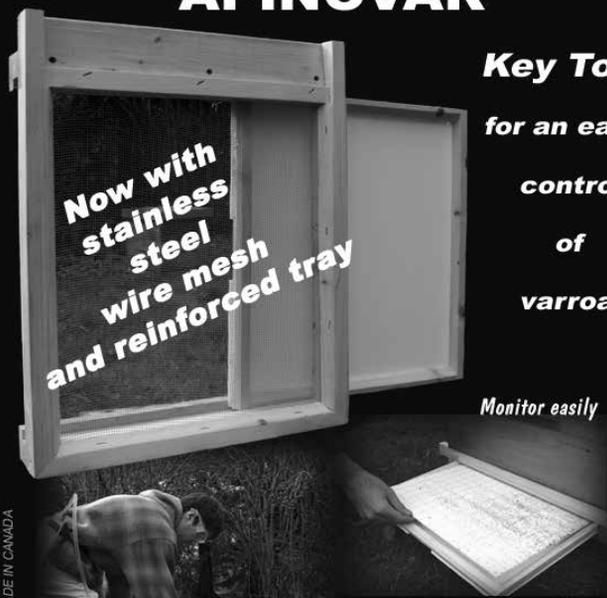
- Bentley extractors
- Cowan extractors
- Swinger Forklift
- High Fructose Corn Syrup
- Sucrose Syrup
- Inland Plastic Winter Wraps
- TLS Bee Apparel
- Mahurangi Hiveware
- Bee Pro Pollen Supplement
- Mountain Bee Products - bee suits, veils
- Oxytet
- Permadent
- Frames
- Supers painted and unpainted
- Supers assembled and unassembled
- Lumber for supers
- Helmets
- Hive tools
- Hive lifters
- Smokers
- Honey containers
- Feeder pails
- Barrels
- Liners
- Barrel Grabber
- Barrel Carts
- Pallet puller



Tony Lalonde Sales Prt.  
Box 42, Clover Sk,  
Canada S0K 0Y0  
Ph: 306-931-0155  
fax: 931-1646

**APINOVAR**

**Key Tool  
for an easy  
control  
of  
varroa**



**Now with  
stainless  
steel  
wire mesh  
and reinforced tray**

Monitor easily

MADE IN CANADA

distributors:

Propolis etc.  
Alberta Honey Producers  
Stanabbey

Treat efficiently by the "flash" method

More information including  
IPM guide and schedule on our web site

[www.apinovar.info](http://www.apinovar.info)

# Food Fraud

*Canadian Food Inspection Agency*

**C**onsumers care about food. They care that food is available, affordable, tasty, and most of all, safe to eat. They also care that what they think they are eating, is in fact what they are eating. The reality is that some food products may be deliberately misrepresented. This is food fraud.

## What is food fraud?

Food fraud is generally considered to be the misrepresentation or adulteration of a product for economic gain. For example, if farmed salmon is marketed as wild salmon, consumers will pay a higher price for it. Substituting less expensive ingredients, such as other vegetable oils added to olive oil, is also food fraud. So is misrepresenting the weight (short weight), or making false claims about the country of origin, how a food was made, or its nutritional qualities. In some cases, food fraud can present a health risk, for instance if an ingredient is knowingly added that is an allergen, but is not declared on the label.

Food fraud is gaining attention as an emerging international issue. The U.S. Grocery Manufacturers Association estimates that fraud may cost the global food industry between \$10 and \$15 billion per year, affecting about 10% of all commercially-sold food products.

## How the CFIA responds

The CFIA takes food fraud seriously, and works hard to protect food safety and protect consumers against activities such as food adulteration, substitution, and product misrepresentation.

The Agency takes steps to combat food fraud by:

- Following up on complaints by inspecting the product and/or the label
- Conducting inspections at different levels of food trade, including domestic processors, importers and retailers
- Analyzing food samples, such as olive oil, honey and spices
- Verifying that food labels and advertising materials comply with regulations
- Conducting environmental scans to identify areas of highest risk
- Offering an industry food labelling tool that can be used to find information on proper labelling requirements to promote compliance and awareness
- Offering a consumer labelling tool to help consumers better understand labelling
- Investing resources into proactive surveillance of food products

For example, when it comes to imported products, the Agency regulates over 1.6 million shipments of imported products every year. Increasing demands for imports means an increased risk of food fraud. CFIA import surveillance teams work to prevent high risk non-compli-

ant products from entering Canada through early detection and interception. As part of risk management oversight, these teams use a variety of intelligence systems and gather information from open forums, internal and external sources.

When cases of food fraud are identified and products, whether domestically produced or imported, are found to be non-compliant, the CFIA will take appropriate regulatory actions to control the non-compliant product. This can range from control measures such as seizing and detaining shipments and products, to issuing a mandatory recall order in order to address an immediate risk, and/or enforcement actions that range from issuing a letter of non-compliance, to suspending or cancelling a permission (i.e. license, registration or permit). The appropriate regulatory action is determined based on various factors including risk or potential risk, as well as history of compliance and intent of the regulated party. In some cases, the CFIA may recommend prosecution, depending on the severity of the non-compliance, and previous enforcement actions.

## What industry can do

Food fraud is the shared responsibility of industry and government. Industry can do its part by:

- Procuring food products from trusted suppliers
- Verifying the authenticity of ingredients used in the manufacturing of food
- Being aware of food laws in Canada, to avoid inadvertent non-compliance with labelling and food composition requirements
- Calibrating and maintaining equipment, such as weighing scales
- Following good importing and manufacturing practices
- Alerting the CFIA in cases of suspected food fraud

The CFIA is committed to collaborating domestically and internationally to discover better ways to address this growing concern. Working together to combat food fraud will protect consumers, benefit businesses, and enhance Canada's reputation as a credible trading partner.

## Canada's Regulatory Requirements for Honey

Honey is found in nearly every home in Canada and on many coffee shop counters.

Honey has a special distinction as it's the only product regulated by the Honey Regulations. Other bee products, such as honeycomb, flavoured honey, royal jelly, bee propolis, and bee pollen fall under the Food and Drugs Act.

As part of our oversight role, the Canadian Food Inspection Agency (CFIA) regulates federally registered honey establishments and honey imported into Canada to verify that honey is:

- safe and wholesome,
- properly packaged and labelled according to the regulatory requirements,
- eligible to be traded interprovincially or exported, and
- eligible to bear the Canada grade mark.

Both domestic and imported honey must meet the same standards for health, safety, and quality. The CFIA conducts random and targeted checks to verify that imported honey meets Canadian regulatory requirements. Concerns that are brought to our attention are also investigated.

The Agency takes the non-compliance of any food product seriously. Honey that does not meet Canada's regulatory requirements may be subject to recall, destruction, or returned to the country of origin.

We work closely with the Canadian honey industry to ensure honey fully meets the quality Canadians expect, which are outlined in our regulatory standards. ■

# Production and value of honey

Compiled by Statistics Canada

Geography<sup>1</sup> = Canada<sup>2</sup>

| Estimates  | 2013    | 2014    | 2015    | 2016    | 2017    |
|--|---------|---------|---------|---------|---------|
| Beekeepers <sup>3</sup>                                  | 8,489   | 8,898   | 8,615   | 10,027  | 10,544  |
| Colonies <sup>3</sup>                                    | 667,397 | 696,252 | 726,008 | 767,683 | 789,598 |
| Production of honey, total (pounds x 1,000) <sup>4</sup> | 76,468  | 85,644  | 92,011  | 94,578  | 92,108  |
| Value of honey, total (dollars x 1,000) <sup>5</sup>     | 181,283 | 209,241 | 210,483 | 169,260 | 188,039 |

By Province

| Prince Edward Island Estimates                           | 2013   | 2014    | 2015    | 2016   | 2017    |
|--|--------|---------|---------|--------|---------|
| Beekeepers   | 47     | 45      | 45      | 40     | 46      |
| Colonies   | 4,432  | 3,777   | 4,005   | 4,920  | 6,300   |
| Production of honey, total (pounds x 1,000) <sup>4</sup> | 176    | 155     | 168     | 162    | 231     |
| Value of honey, total (dollars x 1,000)                  | 453    | 415     | 579     | 445    | 666     |
| <b>Nova Scotia Estimates</b>                             |        |         |         |        |         |
| Beekeepers   | 287    | 320     | 395     | 451    | 604     |
| Colonies   | 19,500 | 23,000  | 25,504  | 31,080 | 28,876  |
| Production of honey, total (pounds x 1,000)              | 495    | 430     | 411     | 588    | 552     |
| Value of honey, total (dollars x 1,000)                  | 1,559  | 1,257   | 1,343   | 1,686  | 1,733   |
| <b>New Brunswick Estimates</b>                           |        |         |         |        |         |
| Beekeepers   | 244    | 277     | 291     | 351    | 374     |
| Colonies   | 4,318  | 5,441   | 6,710   | 7,000  | 7,100   |
| Production of honey, total (pounds x 1,000)              | 207    | 236     | 276     | 287    | 201     |
| Value of honey, total (dollars x 1,000)                  | 517    | 630     | 740     | 661    | 511     |
| <b>Quebec Estimates</b>                                  |        |         |         |        |         |
| Beekeepers   | 296    | 309     | 333     | 384    | 400     |
| Colonies   | 47,203 | 49,635  | 54,294  | 64,426 | 63,500  |
| Production of honey, total (pounds x 1,000)              | 3,286  | 4,290   | 4,194   | 4,507  | 3,967   |
| Value of honey, total (dollars x 1,000)                  | 12,279 | 13,386  | 13,905  | 15,074 | 14,000  |
| <b>Ontario Estimates</b>                                 |        |         |         |        |         |
| Beekeepers   | 3,155  | 3,262   | 2,562   | 2,896  | 3,331   |
| Colonies   | 97,500 | 112,800 | 101,135 | 97,342 | 105,244 |
| Production of honey, total (pounds x 1,000) <sup>4</sup> | 6,363  | 10,577  | 8,972   | 8,880  | 4,468   |
| Value of honey, total (dollars x 1,000)                  | 20,362 | 36,147  | 31,119  | 31,966 | 18,764  |

Footnotes:

1. Figures are compiled by Statistics Canada from provincial data, except for New Brunswick and Prince Edward Island where data are collected through a Statistics Canada mail survey.
2. Does not include Newfoundland and Labrador.
3. Beekeeper and colony numbers may include pollinators that may not extract honey.
4. Production excludes inventory.
5. Value excludes inventory sales except for in Quebec.

| Manitoba Estimates                          | 2013    | 2014    | 2015    | 2016    | 2017    |
|---|---------|---------|---------|---------|---------|
| Beekeepers                                  | 532     | 546     | 607     | 662     | 745     |
| Colonies                                    | 73,800  | 78,700  | 90,909  | 102,030 | 111,802 |
| Production of honey, total (pounds x 1,000) | 12,472  | 14,087  | 16,000  | 15,202  | 17,360  |
| Value of honey, total (dollars x 1,000)     | 25,318  | 30,288  | 32,400  | 21,000  | 32,620  |
| <b>Saskatchewan Estimates</b>               |         |         |         |         |         |
| Beekeepers                                  | 715     | 719     | 955     | 1,150   | 1,044   |
| Colonies                                    | 100,000 | 95,000  | 101,000 | 112,000 | 115,000 |
| Production of honey, total (pounds x 1,000) | 18,200  | 16,530  | 18,837  | 22,848  | 21,965  |
| Value of honey, total (dollars x 1,000)     | 37,310  | 34,713  | 26,372  | 27,418  | 34,045  |
| <b>Alberta Estimates</b>                    |         |         |         |         |         |
| Beekeepers                                  | 890     | 1,015   | 1,064   | 1,453   | 1,360   |
| Colonies                                    | 278,100 | 282,900 | 296,880 | 309,000 | 311,000 |
| Production of honey, total (pounds x 1,000) | 33,200  | 35,500  | 39,461  | 40,170  | 39,808  |
| Value of honey, total (dollars x 1,000)     | 72,905  | 79,788  | 84,555  | 62,388  | 68,454  |
| <b>British Columbia Estimates</b>           |         |         |         |         |         |
| Beekeepers                                  | 2,323   | 2,405   | 2,363   | 2,640   | 2,640   |
| Colonies                                    | 42,544  | 44,999  | 45,571  | 39,885  | 40,776  |
| Production of honey, total (pounds x 1,000) | 2,069   | 3,840   | 3,692   | 1,934   | 3,556   |
| Value of honey, total (dollars x 1,000)     | 10,580  | 12,617  | 19,471  | 8,622   | 17,246  |

## Saskatraz Breeding Stock Available in 2018

Queen cells from tested Saskatraz breeders (\$20). Closed population mated breeder queens (\$300), out crossed breeder queens (\$100) Saskatraz stock carrying VSH trait also available as queen cells, in Saskatraz hybrids and breeder queens in 2018.

Saskatraz Hybrid production queens available April 15th to August 15th (\$30 US). These hybrids will produce pure Canadian Saskatraz drones for stud use. All breeding stock tested and certified. Limited number of nucs available in 2018 with Saskatraz hybrid queens. See [www.saskatraz.com](http://www.saskatraz.com) for breeding information and updates.

Saskatraz stock bred in Saskatchewan for honey production, wintering ability and resistance to mites and brood diseases.



Email: [a.j.robertson@sasktel.net](mailto:a.j.robertson@sasktel.net)  
 Phone: (306)-373-9140 Cell: (306)-270-6627  
 for prices and availability.

**Lewis & Sons**  
 Enterprises Ltd.  
 BOX 316, AUSTIN, MANITOBA  
 Toll-free 1-866-800-2077  
 Phone: (204) 637-2277 Fax: (204) 637-2033  
 Murray or Adam Lewis

**QUALITY WOODENWARE BOXES, FRAMES, ETC., AND PINE LUMBER**  
 Unassembled, Assembled and/or Wax-dipped  
 Food-Grade Finish

Also available at all "BeeMaid" Bee Supply Outlets

Call for Pricing  
 Please order well in advance.

**BEEKEEPERS BUILDING FOR BEEKEEPERS.**

PROUDLY OWNED BY CANADIAN BEEKEEPERS

# BeeMaid



Canada's  
 beekeeping  
 source

We can handle your sugar requirements. Dry or liquid – small lots or trailer loads.

Bee Maid buys light and dark beeswax at competitive prices.

## TOP QUALITY PRODUCTS FOR BEEKEEPERS

- Foundation
- Queen Rearing Supplies
- Beekeepers Apparel & Tools
- Hive Equipment
- Novelties
- Honey Containers
- Extracting Equipment
- Medications & Treatments
- Packaged Bees & Queens

Contact your nearest outlet:

**Bee**Outfitters

Manitoba Cooperative  
 Honey Producers  
 625 Roseberry Street  
 Winnipeg, MB R3H 0T4  
 204.783.2240 ext. 228

Bee Maid  
 Honey  
 Highway #3  
 Tisdale, SK S0E 1T0  
 306.873.2521

Alberta Honey  
 Producers Co-operative  
 70 Alberta Avenue, Box 3909  
 Spruce Grove, AB T7X 3B1  
 780.962.5573

Shop online at:  
[www.beemaidbeestore.com](http://www.beemaidbeestore.com)  
[www.beemaid.com](http://www.beemaid.com)



## Help Wanted

### Help Wanted: Kinistino, (SK)

Baconian Bee Farm Ltd, located at 102 Ruttle Avenue in Kinistino, Saskatchewan, is looking for two employees for the 2018 honey crop season to fill the position of apiary labourer. The job will commence on or about March 20, 2018 and conclude on or about October 20, 2018. Primary duties include, but are not limited to, moving colonies, feeding and medicating colonies, evaluating colonies, adding and removing supers from colonies, harvesting and extracting honey, storing honey and repairing bee equipment. Availability to work long hours, including week-ends and evenings is required. Previous experience would be an asset but is not a requirement as all employees receive the necessary training. Salary starting from \$11.83/hr and up based on previous experience. Please forward resume to: [dionebacon13@sasktel.net](mailto:dionebacon13@sasktel.net)

### Help Wanted: Shellbrook (SK)

Hannigan Honey Inc. P.O. Box 367 Shellbrook, Sask. S0J 2E0 Located 1.5 km north of Shellbrook at 9 Shell River Road. Contact Information: Dave Philp - [davhanniganhoney@sasktel.net](mailto:davhanniganhoney@sasktel.net)

11 Apiary Workers Positions (NOC 8431) - \$11.83 to \$13.00/ per hour We are now accepting applications for 11 apiary workers. These positions are available on a seasonal basis (45+ hrs/week), running from March to October 2018. Previous work experience with honey bees required, no education required. Duties include: Hive manipulation and feeding, hive unwrapping and wrapping, honey extraction, cleaning extraction equipment, filling containers and cleaning and maintaining hive equipment. Good physical health and strength required for this strenuous work. Drivers license is required. Must be available to work weekends and holidays.

4 Apiary Labourers Positions (NOC 8431) - \$10.96/ per hour We are now accepting applications for 4 apiary labourers. These positions are available on a seasonal basis (45+ hrs/week), running from March to October 2018. No previous work experience with honey bees required, no education required. Job duties include: Hive manipulation and feeding, hive unwrapping and wrapping, honey extraction, cleaning extracting equipment, filling containers and cleaning and maintaining hive equipment. Good physical health and strength required for this strenuous work. Drivers license is required. Must be available to work weekends and holidays.

Ph (306)747-3299 Cell (306)747-7782

### Help Wanted: Beamsville (ON)

8 seasonal beekeeping labourers. Contact- Charlie-Bee Honey E-mail- [charlie-beehoney@sympatico.ca](mailto:charlie-beehoney@sympatico.ca) Mike Parker-1 905 563 7285

8 Seasonal beekeepers wanted April to Nov. 2018 \$11.60-\$14.00/hour. Experience is an asset. Work is physically demanding and long hours. Includes beehive management and maintenance. Must have valid and clean drivers license.

Charlie-Bee Honey requires 2 apiary technicians for the 2018 season. Apiary Technician- experience- 2 years minimum in the apiary field. Seasonal with potential for year round for the right person. Duties- handle, feed, care for bee colonies, supervise

crew members. Recognize bee health issues and take remedial action. Prepare hives for transportation for pollination and honey production. Bee yard maintenance. Operate and maintain machinery relevant to our apiary. Harvest honey, build and maintain beehive equipment, keep proper records. Able to interact with other people we deal with in our operations. Wages- depends on experience. Working Conditions- long hours at certain times of the year. A lot of jobs required outside in all kinds of weather. Heavy lifting involved. Must be a team player and able to work well and efficiently alone or in a crew. A lot of travelling in Ont. and Manitoba required. Must have valid and clean drivers license. DZ or AZ beneficial but not necessary. Operate machinery but will train. Own transportation to and from work.

### Help Wanted: Sexsmith, AB

Moondance Honey Inc. located at 55063 TWP RD 750 has the following positions for the 2018 season. Beekeeper Technician (NOC8431)- 4 seasonal positions, 2 full time; wages \$15 - 18/hour, depending on experience. Duties include hive management, queen introduction and nuc production, pest/disease recognition and treatment, hive supering, honey removal and extraction, and winter hive preparation. Positions requires 2 - 5 years of experience. Apiary Worker (NOC 8431) - 2 seasonal positions, \$13.50 - 15, depending on experience. Duties include assisting beekeepers with spring hive management, nuc production, hive supering, honey removal and extraction, and winter hive preparation. Seasonal positions run from mid-April to mid-October. Apply to [termeerbill@yahoo.ca](mailto:termeerbill@yahoo.ca) or mail resume to RR2, Site 13, Box 9 Sexsmith, AB T0H 3C0.

### Help Wanted: Zenon Park (SK)

10 FULL-TIME SEASONAL APIARY HARVEST WORKERS FOR 2018 SEASON MOYEN HONEY FARMS LTD 10 FULL-TIME SEASONAL APIARY HARVEST WORKERS FOR 2018 SEASON HELP WITH:

- Spring Check, Hive Assessment
- Pest & Disease Control
- Grafting, Making Nucs, and Raising Queens.
- Assembly of New Equipment, and Repair.
- Supering Hives, and Harvesting Honey.
- Maintenance of Bee Yards.

- Fall Feeding, Treatment of Bees, and Wrapping of Hives. Wages starting at \$ 13 POSITIONS AVAILABLE FROM March 15th to Oct 31st, 2018. CONTACT: GERRY MOYEN @ 306 767 2440 FAX @ 306 767 2626 Mail P.o Box 249 Zenon Park Saskatchewan

Email: [moyenhoneyfarms@gmail.com](mailto:moyenhoneyfarms@gmail.com)

### Help Wanted: MacGregor (MB)

11 SEASONAL BEEKEEPERS (Applicants must be current residents or citizens of Canada only)

4 Apiary Technicians employment period March 1, 2018 to October 31, 2018, Wage range \$13.00-\$16.50 per hour

7 Apiary Workers employment period April 1, 2018 to October 31, 2018. Wage range \$11.75-\$13,50 per hour Valid driver's license an asset, previous experience

working with honeybees is necessary for technicians and an asset for apiary workers. Candidates must be willing to work flexible hours in a fast paced, repetitive & physically demanding environment.

Duties include: assess, feed, and medicate honeybee colonies, remove/extract honey, split/balance/relocate colonies, clean/collect pollen, build/repair beehive equipment, and perform routine light maintenance on machinery/vehicles. Contact: Nichol Honey Farm Ltd., Box 461, MacGregor, MB, R0H0R0, Phone (204) 252-2770, Fax (204) 252-2129, or email: [nicholhoney@yahoo.ca](mailto:nicholhoney@yahoo.ca)

### Help Wanted: Rocanville (SK)

B STRONG APIARIES LTD. Contact: Brian Strong Email – [bdstrong@sasktel.net](mailto:bdstrong@sasktel.net) or fax (306)-645-4591 APIARY TECHNICIAN 5 seasonal positions available from April 21 – October 21 (2018). Reporting to work at B. Strong Apiaries Ltd. 1 mile south west of Rocanville, Sk. (NE 17-16-31 W1) Wages dependant on experience (\$14.28 - \$17.00) Possible production bonus at end of the season.

Duties include but are not limited to: Unwrapping/wrapping hives, colony manipulation, application of honey bee treatments, making nucs, supering, maintaining equipment and a clean shop, pulling and extraction of honey, moving and feeding hives, etc.

Requirements:

- Minimum of 2 years beekeeping experience.
- Must not be allergic to honey bee stings.
- Must be able to lift and carry 50lb-70lbs standard, and up to 100lbs for extended periods of time.
- Required long hours and occasional weekend/holiday work (minimum 40hours a week).
- Must work well with others, and able to work long hours in the heat.
- Ability to speak English is an asset but not a requirement.

APIARY WORKER 5 seasonal positions available from April 21 – October 21 (2018). Reporting to work at B. Strong Apiaries Ltd. 1 mile south west of Rocanville, Sk. (NE 17-16-31 W1) Wages dependant on experience (\$13.00 - \$15.00) Possible production bonus at end of the season.

Duties include but are not limited to: Assisting apiary technicians in the unwrapping/wrapping of hives, colony manipulation, application of honey bee treatments, making nucs, supering, maintaining equipment and a clean shop, pulling and extraction of honey, moving and feeding hives, safely securing truck loads of honey/equipment, keeping accurate yard records, etc.

Requirements:

- Must not be allergic to honey bee stings.
- Must be able to lift and carry 50lb-70lbs standard, and up to 100lbs for extended periods of time.
- Required long hours and occasional weekend/holiday work (minimum 40hours a week).
- Must work well with others, and able to work long hours in the heat.
- Ability to speak English is an asset but not a requirement.

APIARY WORKER 5 seasonal positions available from July 3rd – September 15 (2018). Reporting to work at B. Strong Apiaries Ltd. 1 mile south west of Rocanville, Sk. (NE 17-16-31 W1) Wages dependant on experience (\$13.00 - \$15.00) Possible production bonus at end of the season.

Duties include but are not limited to: Cleaning warehouse at start of season. Daily upkeep and maintenance of extracting area, extraction of honey, etc.

Requirements:

- Must not be allergic to honey bee stings.
- Required long hours and occasional weekend/holi-

day work (minimum 40 hours a week).

-Must work well with others, and able to work long hours in the heat.

-Ability to speak English is an asset but not a requirement. Contact Brian Strong @ [bdstrong@sasktel.net](mailto:bdstrong@sasktel.net) or fax resume to (306) 645-4591

---

#### **Help Wanted: Langenburg (SK)**

4 Apiary Technicians available from February 2018 to October 2018. The work is physically demanding and the wages are \$18.00 negotiable on experience.

Required Skills:

- Help with Spring check, do hive assessment
- Help with pest and disease control
- Help with Queen Raising, grafting, building, maintaining nucs
- No education required, but 2 years beekeeping experience required 8 Beekeeper's Assistants seasonal: F-T \$14.00 an hour depending on experience.

We require help in all work related to the production of honey. Duties include:

- Making brood chambers
- Honey removal
- Feeding bees
- Wrapping bees

- Some woodwork is involved Mail, fax or email your resume to: Glory Bee Honey, P. O. Box 878 Langenburg, SK S0A 2A0 At: Dennis Glennie Phone: 306-743-5469. Fax: 306-743-2817

Email: [dennisglennie@sasktel.net](mailto:dennisglennie@sasktel.net)

---

#### **Help Wanted: Souris (MB)**

2 Apiary Workers for the 2018 season, April 1-Oct.31/18 Wage \$12.-\$15. hr. depending on experience. 1-2 years preferred. Drivers license an asset. Must be able to operate a Fork Lift. Duties include. feeding, unwrapping beehives, moving beehives to summer locations, queen checking, disease inspection, supering hives, pulling and extracting honey, fall feeding, moving hives to winter locations, wrapping hives for winter. Building new equipment when required and repairing equipment.

2 Apiary Workers for the 2018 Extracting season from approximately July 15- Sept.15/18. Duties would include extracting and pulling honey from the beeyards when required. Wage \$12.-\$13 hr. depending on experience. Please send resume: Harlton Apiaries (Irwin Harlton) Box 644 Souris, MB. R0K 2C0 email: [iharlton@mymts.net](mailto:iharlton@mymts.net) Phone 204-483-2382

---

#### **Help Wanted: Granum (AB)**

SUPERNUC APIARIES located near Granum, AB (M.A. 251032 TWP RD 104) has the following positions for the 2018 season:

APIARY WORKERS (Low Skilled Worker NOC 8431) 4 positions; wage starting at \$13.60/hr (or current wage according to NOC code), needed full time (45+ hrs/wk) from Mar 1, 2018 through October 31, 2018. Some evening, night and weekend work will be required. Accommodations are available. 1 year experience required. Duties include assisting with beehive maintenance and treatments, building and repairing bee equipment, moving hives, harvesting and extracting honey, and winter preparation. All wages are negotiable based on experience and productivity. A valid driver's license and the ability to speak English is an asset. Must be physically fit and accustomed to working with honeybees. Email resumes to [aovinge@gmail.com](mailto:aovinge@gmail.com) or fax to 403-687-2154

---

#### **Help Wanted: Kinistino, (SK)**

Position 1 Bacon Apiaries Ltd, located in Kinistino, Saskatchewan, is looking for an Apiary worker for

the 2018 honey crop season. The job will commence approximately on March 15, 2018 to Oct 31, 2018. Primary duties (but may not be limited to) includes moving hives, feeding and medicating colonies, evaluating colonies, supering hives and harvesting honey, extracting and storing of honey and repairing bee equipment. Availability to work long hours, including week-ends and evenings is required. Salary starting from \$11.90/hr to \$ 13.00/hr depending on experience

Position 2 Bacon Apiaries Ltd, located in Kinistino, Saskatchewan, is looking for 5 Honey harvester labourers for the upcoming 2018 honey season. Job duties include using an automatic lift to place full honey supers on a conveyor, running honey frames through an uncapper, moving frames into an extractor, removing empty frames and putting them into supers, stacking them away, making new honey equipment and repairing existing honey equipment. Employees hours will be 40-60 hours/week (5-6 days) with wages starting at 10.80/hr to \$12.00/hr depending on experience. Employment from July to September 24th 2018. Send resume to [rbacon@sasktel.net](mailto:rbacon@sasktel.net)

---

#### **Help Wanted: Fisher (MB)**

Positions: 3 Apiary Workers For the 2018 honey harvest. Those with bee sting allergies need not apply. Seasonal full time, days, evenings and some Saturdays. Work is mostly outdoors, so must be able to work under hot conditions. Start date: May 1st - July 1st, 2018 End date: Sept 10th -October 28th, 2018 Wages are starting at \$12.94. Require one or more years of apiary work experience.

Duties include but not limited to, feed and care for bees, replacement of hives, moving hives, supering hives, collecting honey, working on extracting line, cleaning extracting equipment and honey house, assembling and maintenance of bee equipment, maintain and drive vehicle. Work is very physically demanding, with long days and heavy lifting. The job is located 2 hours north of Winnipeg in the RM of Fisher NE 33-23-1W in Fisher Branch, MB Please apply to Box 328 Fisher Branch, MB R0C 0Z0 or email [kristens@interlakeforageseeds.com](mailto:kristens@interlakeforageseeds.com)

---

#### **Help Wanted: Tees (AB)**

\*TEES BEES INC.\* requires:

Two APIARY TECHNICIANS (NOC 8431) with a minimum of 2-3 years (seasons) experience working on a Canadian style commercial apiary in the min. capacity of Apiary Worker or General Farm Worker with employment March thru October 2018 (\$15-\$19/hr depending on exp. with possible bonus) (40+ hrs/wk); Duties include: caring for honeybee colonies in the appropriate manner; coordinating the production of replacement bees and equipment; recognizing, reporting, monitoring hive health issues and applying appropriate treatment/controls; harvest and fill honey barrels and containers; supervise small teams of workers; driving and daily maintenance of vehicles; operate and maintain other apiary equipment; conduct bee yard maintenance; keep some field production records. A motor vehicle operator's licence with no serious infractions, recognized by the Province of Alberta and major insurance companies is required.

Four APIARY WORKERS (NOC 8431) with a minimum of 1 year (season) experience and with employment April thru November 2018 (\$13.60-\$17/hr depending on exp. with possible bonus) (40+ hrs/wk); Duties include caring for honeybee colonies in the appropriate manner; assisting Technicians with bees and equipment; assisting with harvesting honey; assisting with the bee yard and equipment maintenance.

All wages are negotiable based on experience and productivity. Applicants must be able to work in the presence of honey bees. All positions may require some evening, night & weekend work. All applicants must be in good physical condition and able to work in a team environment. Ability to speak English is an asset.

Contact Jeremy Olthof at 23318-Hwy 50, Tees, AB; mail to RR1, Tees, AB T0C 2N0; or email at [teesbeesinc@gmail.com](mailto:teesbeesinc@gmail.com)

---

#### **Help Wanted: East Selkirk (MB)**

Apiary Worker 3 positions (NOC 8431) Beekeeping farm. Seasonal full time, days, evenings, Saturdays. \$12.00 -13.50 per hour for 50 hrs. per week, . Employment from March 31/ 2018-October 31/2018. At Waldbee Honey Farms Inc. Box 9 Group 19 RR1, East Selkirk, MB . ROE 0M0. Language is English. Minimum 1 year experience required. Duties would be to handle, feed and care for bees; help in replacement of hives and production of nucs; move hives; collect honey; maintain and drive vehicles; maintain bee yard; manufacture, assemble and maintain beehive equipment; maintain and operate other apiary related equipment; Must be able to handle heavy loads, and work is physically demanding. Must work well with others, as well as the ability to maintain basic production records. Report to Supervisor. Would require steel toed safety boots. Send resume by mail to above address or by email to [philip@waldbee.com](mailto:philip@waldbee.com)

---

#### **Help Wanted: Ethelbert, (MB)**

WEST 10 HONEY LTD, PO Box 205, Ethelbert, MB R0L 0T0 has the following positions available:

APIARY TECHNICIAN (12) Wage: \$13.15- \$16.00. Dates Required: March 1, 2018 for up to 8 months. Minimum 3 years experience preferred. Duties: Handle and feed hives; Replacement of hives and production of nucs; Detect and report hive health and apply correct disease cures and/or controls; Keep field and/or production records; Harvest honey; Raise queens; Drive and maintain vehicles; Other duties as assigned. THE POSITIONS: Seasonal full time, days, evenings, Saturdays as required; Medical Benefits; Language is English and Spanish; Must have own transportation; Must be able to handle heavy loads as work is physically demanding; Must work well with others and be able to learn continuously.

Send resume by mail to above mailing address or by email to [workatwest10@gmail.com](mailto:workatwest10@gmail.com)

---

#### **Help Wanted: Shellbrook (SK)**

Beekeepers Assistant / labourers Sand Hills Honey, PO Box 247, Shellbrook, SK. S0J 2E0 Beekeeper helpers Labourers needed for full time employment positions starting approx. April 1 to November 15, 2018 Wages are according to experience and work ethic, \$10.96/hr- \$15.50/hr Primary work place is Sand Hills Honey, located 14.5 km South of Shellbrook on Wingard Ferry Road. No previous work experience required, no education required, drivers licence not required but an asset. Job duties include but not limited to: assist with honey extraction, cleaning and maintaining hive equipment, unwrapping and wrapping hives, all training will be provided. Contact Jason, Phone: 306-747-7220

---

#### **Help Wanted: Pleasant Valley (AB)**

PLEASANT VALLEY HONEY PRODUCERS LTD. (SW 15-46-27-W4 near Falun, AB) requires: Ten APIARY TECHNICIANS (NOC 8431) with a minimum of 2 years (seasons) experience working on a Canadian style commercial apiary with employment

March thru November 2018 (\$13.60-\$19/hr depending on experience with possible bonus) (40+ hrs/wk); Duties include: caring for honeybee colonies in the appropriate manner; coordinating the production of replacement bees and equipment; recognizing, reporting, monitoring hive health issues and applying appropriate treatment/ controls; harvest and fill honey barrels and containers; supervise small teams of workers; driving and daily maintenance of vehicles; operate and maintain other apiary equipment; conduct bee yard maintenance; keep some field production records. A motor vehicle operator's licence with no serious infractions, recognised by the Province of Alberta and major insurance companies is required.

All wages are negotiable based on experience and productivity. Applicants must be able to work in the presence of honey bees. All positions may require some evening, night & weekend work. All applicants must be in good physical condition and able to work in a team environment. Ability to speak English is an asset. Contact Ryan Olthof in person at the farm to apply.

---

#### Help Wanted: East of Saskatoon (SK)

Meadow Ridge Enterprises Ltd requires 5 Seasonal Apiary Harvest Labourers for the 2018 season. Meadow Ridge Enterprises is commercial beekeeping and queen rearing operation. 5 full time seasonal positions are needed commencing in April and ending in October. Minimum one year beekeeping experience, with wage starting at \$12.00 - \$14.00 per hour dependent on experience. Potential to earn bonuses. Duties include: spring feeding, hive maintenance, grafting, raising new queens and building nucs. Supering hives, harvesting honey, extraction of honey, fall feeding, wrapping of colonies, equipment cleaning, repairing and yard maintenance. Must be able to work long hours, weekends and holidays in all kinds of outdoor weather. Job requires heavy lifting, and a valid driver's license. Meadow Ridge Enterprises is located 10 miles east of Saskatoon.

Please email resumes to [a.j.robertson@sasktel.net](mailto:a.j.robertson@sasktel.net)

---

#### Help Wanted: MacNutt (SK)

Help Wanted: 3012352 Manitoba Ltd. o/a Wendell Honey Box 1439 Roblin MB. R0L 1P0. Reporting to work at Wendell Honey, one mile east of MacNutt, Saskatchewan. Transportation provided from there to various bee yards. 12 full-time positions available at Wendell Honey in 2018 • Apiarist Technician (NOC 8252)

o help with Spring check, hive assessment and manipulation

o help with pest and disease control

o help with grafting, making nucs and raising queens

o assemble equipment

o help super hives

o help harvest honey

o help keep field production records

o help maintain beeyards

o help with Fall feeding, assessment and treatments

o help to wrap bees

o other duties as assigned

• Positions available from April 9, 2018 to mid-October 2018

• Min. 2 years of experience working with bees necessary

• Work is physically demanding

• Wages \$15.00 - \$20.00 per hour depending on experience with Wendell Honey

• Possible production bonus Email Isabel Wendell at [isy@wendell.ca](mailto:isy@wendell.ca) for fax 204-564-2568 or phone 204-937-7767 12 full-time seasonal positions available at Wendell Honey in 2018

• Apiary Worker (NOC 8431) to assemble equipment

o help super hives

o help harvest honey

o help maintain beeyards

o help with Fall feeding

o help to wrap bees

• Positions available from May 14, 2018 to mid-October 2018

• No experience necessary

• Work is physically demanding

• Wages \$12.00 - \$15.00 per hour depending on experience with Wendell Honey

• Possible production bonus Email Isabel Wendell at [isy@wendell.ca](mailto:isy@wendell.ca) for fax 204-564-2568 or phone 204-937-7767

---

#### Help Wanted: Ardmore (AB)

An APIARY FOREPERSON (NOC 8252) for full-time (40+ hrs/wk) year round employment (\$19.00-\$22/hr depending on experience). Applicant must have a minimum of 5 years (seasons) fulltime in a Canadian style commercial apiary environment with a minimum of 3 years (seasons) working as an Apiary Technician. Duties include:

• Caring for honeybee colonies in the appropriate manner.

• Co-ordinating the production of replacement bees & equipment.

• Recognizing, reporting, monitoring and controlling hive health issues.

• Harvest & package honey, pollen & beeswax.

• Supervise & train workers.

• Drive (including std transmission & medium duty trucks) & daily maintain vehicles.

• Operate & maintain other apiary equipment (including forklifts, chainsaws & pumps).

• Conduct bee yard maintenance.

• Keep field and/or production records.

• Interact with external farm personnel. 5 APIARY TECHNICIANS (NOC 8431) for full time (40+ hrs/wk) employment (\$15-\$19/hr depending on experience) January thru October 2018. Must have a minimum of 2 years (seasons) working fulltime on a Canadian style commercial apiary in the min. capacity of Apiary Assistant or General Farm Worker.

Duties include:

• Caring for honeybee colonies in the appropriate manner.

• Co-ordinating the production of replacement bees & equipment.

• Recognizing, reporting, monitoring hive health issues and applying appropriate treatment/controls.

• Harvest & package honey, pollen & beeswax.

• Supervise small teams of workers.

• Drive (including std transmission & medium duty trucks) & daily maintain vehicles.

• Operate & maintain other apiary equipment (including forklifts, chainsaws & pumps).

• Conduct bee yard maintenance.

• Keep some field and/or production records.

6 APIARY WORKERS (NOC 8431) for full time (40+ hrs/wk) employment (\$13.60-\$17.00/hr. depending on experience) January thru October 2018. Applicants must be able to work in the presence of honey bees.

Duties include:

• Caring for honeybee colonies in the appropriate manner

• Assisting Technicians with bees & equipment.

• Assisting with harvesting honey, pollen & beeswax.

• Assisting with the bee yard and equipment maintenance. All positions may require some evening, night

& weekend work. All applicants must be in good physical condition and able to work in a team environment. Preference for the Foreperson and Technician positions will be given to those holding a motor vehicle Operator's license with no serious infractions, recognized by the Province of Alberta & major insurance companies. Contact Dave Tharle, 44116 - Hwy 659, Ardmore, AB or Box 80, Ardmore, AB. (Fax 780-826-6013) Email: [tantapi@mcsnet.ca](mailto:tantapi@mcsnet.ca)

---

#### Help Wanted: Fort Macleod (AB)

POELMAN APIARIES LTD. in Fort Macleod, AB requires:

6 APIARY TECHNICIANS (SKILLED WORKER, NOC 8253) with a minimum of 5 years(seasons) experience working at a Canadian apiary. Employment will be March through October 2018 (\$14.52 - \$17.50 depending on exp. with possible bonus) (40 + hrs/week). Duties will include: caring for honeybee colonies in the appropriate manner; coordinating the production of replacement bees and equipment; recognizing, reporting, monitoring hive health issues and applying appropriate treatment/controls; harvest and fill honey barrels and containers; supervise small teams of workers; driving of vehicles; operate and maintain other apiary equipment; conduct bee yard maintenance.

15 APIARY WORKERS (LOW SKILL WORKER, NOC 8431) with a minimum of 1-2 years experience. Employment will be April through November 2018 (\$13.60- \$15.00 depending on exp. with a possible bonus) (40 + hrs/week). Duties will include: caring for honeybee colonies in the appropriate manner; assisting Technicians with bees and equipment; assisting with harvesting honey; assisting with the bee yard and equipment maintenance.

1 GENERAL FARM WORKER (Harvesting Labourer, NOC 8431) experience is an asset but will be trained. Employment needed for April through November 2018 (\$13.60 per/hour, possible bonus) (40 + hrs/week). Duties will include: Supering and harvesting honey, cleaning honey extraction and storage equipment, barrel moving prep, filling and storage, manufacture and assemble and maintain hive equipment, and bee yard maintenance.

All wages are negotiable based on experience and productivity. Housing is available. Applicants must be able to work in the presence of honey bees. All positions may require some evening, night & weekend work. All applicants must be in good physical condition and able to work in a team environment. Ability to speak English is an asset. Email resumes to [pollenpal@gmail.com](mailto:pollenpal@gmail.com) attention Poelman Apiaries or fax to 403-687-2410 or mail to Box 1887 Fort Macleod, AB T0L 0Z0.

---

#### Help Wanted: Pitt Meadows (BC)

2 Experienced beekeepers & 1 Honeybee Farm Supervisor 2 experienced beekeepers wanted for February 01 - October 31, 2018, and 1 honeybee farm supervisor on a permanent full-time basis starting January 1st 2018. Preference will be given to candidates with queen rearing experience. Hourly pay rate \$14 - \$20, depending on experience. Accommodations available. Send resumes to manager, Honeyland Canada. email: [manager@HoneylandCanada.com](mailto:manager@HoneylandCanada.com)

---

#### Help Wanted: Big River (SK)

West Cowan Apiaries Big River SK requires for the 2018 season. Start Dates: April 3-October 30 2018.

\*Training is provided on an ongoing basis, but experience may be required\*

Three Apiary Supervisors - Minimum of 3 - 4 full seasons of apiary experience required. Wage \$14.28 -

\$17.00 per hour dependent upon experience. Job Includes: Must be able to work in the presence of honey bees and will assist with colony management; Queen rearing; honey extraction and processing; recognize and report beehive health issues and apply appropriate disease cures or controls; supervise and give direction to other employees; keep field and production records and any other apiary jobs that are required.

Three Apiary Technicians/Workers - Minimum of one to two full seasons of Apiary experience required. Wage \$11.83 - \$14.00 per hour dependent on experience. Job includes: Wrapping / Unwrapping hives; Spring and Fall maintenance; feeding hives; creating nucs; supering hives; pulling honey supers (80+lbs) and carrying supers to the truck deck; extracting honey; moving bees (some evening and weekends if need be); maintain bee yards and any other assorted duties with regards to apiary work. Most tasks are performed outdoors in all kinds of weather. Work is repetitive and physically demanding. Requirements: No formal education is required but with at least Grade 12 education would be an asset. Valid driver's licence and have a vehicle to get back and forth to work. Experience driving standard trucks preferred. Be in good physical condition and be able to work in a team environment. Employment details: Seasonal (F/T) 40+ hours per week Mail or deliver in person your resume with references to Postal address or Fax 306-469-5779.

Or email to email address c.warriner@sasktel.net

---

#### Help Wanted: Kinistino, (SK)

Seasonal Help Wanted. Apiary Harvest Labourers and Apiary Harvest workers required for seasonal work in a commercial honey production and bee rearing operation for the 2018 season.

Three Apiary Harvest Labourer positions available for 5-8 months (starting no earlier than February). Labourers perform (but are not limited to) tasks such as supering hives, harvesting honey, cleaning honey extraction and storage equipment; barrel filling and moving; repair, assemble and maintain hive equipment and bee equipment; bee yard maintenance. Knowledge of the industry, a valid drivers licence and English speaking skills an asset but not mandatory. Wage starts at \$11.00/hr with subsidized housing option and potential for bonuses based on performance, attitude and character.

Three apiary Harvest worker positions available for up to 8.5 months (Feb to November). Apiary Harvest Workers perform (but are not limited to) tasks such as supering hives, harvesting honey, cleaning honey extraction and storage equipment; barrel filling and moving; repair, assemble and maintain hive equipment and bee equipment; bee yard maintenance; assist with colony manipulation; assist with colony treatments; assist with moving colonies; assist with feeding colonies. Canadian beekeeping industry knowledge, 1 year experience, valid drivers licence and English skills required. Wage starts at \$12.00/hr with subsidized housing option and potential for bonuses based on performance, attitude and character. Availability to work long hours, evenings/nights, holidays and weekends is required for all positions.

Work is faced paced and physically demanding with heavy lifting. Email resume and cover letter with references to B's Bee Ranch Inc at beeranch@sasktel.net

---

#### Help Wanted: Aylsham (SK)

Valleau Apiaries requires the following: 7 seasonal full time beekeepers. Employment from April to October 2018. Wages starting at \$14.00 per hour based on experience and qualifications. Duties to include spring and fall hive maintenance, making nucleus

hives, harvesting and extracting honey, moving bees, beekeeping equipment construction, some building and vehicle maintenance and any related duties. 6 seasonal full time apiary workers. Employment from July to September 2018.

Wages starting at \$11.64 per hour.

Duties to include cleaning extracting plant, harvesting or extracting honey, fall hive maintenance, beekeeping equipment construction and any related duties. Experience is an asset but on the job training is available. Job involves heavy lifting, mostly manual labour and hot conditions. Job location is in a rural area in NE Saskatchewan. Please do not apply if you have an allergy to bee stings. Send resume to Valleau Apiaries Ltd @ Box 7, Aylsham, Sk S0E 0C0 or fax 306-862-3682 or email Dan at valleau.apiaries@sasktel.net

---

#### Help Wanted: Austin (MB)

Full time seasonal Apiarist Technician (NOC 8252) and Apiary Laborers or Workers (NOC 8431) available at Busy Bee Apiaries Ltd. honey farm near rural Austin, MB., Road Lane #63074 for the 2018 season. Apiarist Technician (1 position) and Apiary Laborers or Workers (3 positions).

Apiarist Technician: April 2 - Oct.31/2018. Duties: All apiary management like medicating, feeding, harvesting/extracting honey, maintenance, clean-up, transporting bee colonies, supervisory duties, other duties as assigned. Must have drivers license. Wages: \$13.50-\$15.00/hour based on qualifications. No education requirements.

Apiary Laborers or Workers: 1 position, April 2-Oct.31/2018, 2 positions, June 1-Oct.15/2018.

Duties: supervised hive management, harvesting/extracting honey, clean-up, other duties as assigned. Wages: \$11.18-\$13.00/hour based on experience. No education requirements. Hours of work for all positions are generally 08:00-18:00 but longer days are frequent, Monday-Friday and Saturdays as required. Send resume to Busy Bee Apiaries Ltd. Box 358, Austin MB., ROH OCO, or email: pilotman1977@gmail.com

---

#### Help Wanted: Nipawin (SK)

Yves Garez Honey Inc, P.O Box 2016, Nipawin, SK, S0E 1E0 seeks employees for the April 2018 to October 2018 season at facilities located 10 km North-East of Nipawin, Saskatchewan. Good work ethics, health and stamina essential, for hard work, heavy lifting, long days including some weekends. Those allergic to bee stings and work need not apply.

-8 Apiary Workers with experience in handling bee hives including unpacking and packing, checking, feeding, medicating, cleaning, moving, splitting, supering, raising queens, as well as harvesting and extracting honey. Wages \$ 14.00 to \$ 20.00 per hour, depending on experience.

-5 Apiary Labourers without experience. We will train successful applicants in bee yard maintenance and hive manipulations. Wages \$ 11.00 to \$ 13.00 per hour. email: y.garez@sasktel.net

---

#### Help Wanted: Dauphin (MB)

DURSTON HONEY FARMS

- 1 APIARY SUPERVISOR Position Available (\$13.15/Hour) Duties Include: Supervising Employees, in Addition to Below\*

- 8 APIARY TECHNICIANS/ WORKERS Positions Available (\$11.64/Hour) Reports to Supervisor - START DATE: April 1, 2018-October 31, 2018 - \*DUTIES: Handle, feed and care for honeybee colonies; Co-ordinate the production of Nucs; and/or replacement beehives; Recognize and report

beehive health issues and apply appropriate disease cures/controls; Move beehives; Collect and package honey, pollen and/or beeswax; Drive and maintain vehicles (including large and forklifts); Maintain bee yards; Manufacture, assemble and maintain beehive equipment; Operate and maintain other apiary related equipment. For full details and to apply, please visit our website durstonhoneyfarms.com or send a resume by fax, or by email to: Fax: (204) 638-3736; Email: careers@durstonhoneyfarms.com; Address: Highway 5 & 10 South, 2KM South of Dauphin, Manitoba.

---

#### Help Wanted: Argyle (MB)

Grysiuk Apiary Inc.

5 Full time seasonal apiarists 2018. Full time seasonal apiarists, wages are \$12 to \$15 per hr. depending on exp. job is physically demanding, must help with wrapping, feeding, making nucs, supering, pulling honey, honey extraction, medicating hives, and winter preparation. Please call Cal Grysiuk, ph./fax 204-831-7838, Email acgrysiuk@shaw.ca, or mail: Grysiuk Apiary Inc. 83 Acheson Dr. Winnipeg, MB R2Y 2E8

---

#### Help Wanted, Caspian Apiaries (BC & AB)

Contact Information CASPIAN APIARIES INC is seeking 10 seasonal full time (40+ hrs/week).

Apiary Workers (NOC 8431) \$13.60/hr for the 2018 season. Work starts mid January 2018 til Oct 31. There is evening, night/weekend work. Applicants must be in good physical condition and be able to work in a team environment. Duties include handling, feeding and caring for honeybee colonies, assisting in the production of nucs and/or replacement hives, diagnose and treat hive health issues, moving hives to and from pollination, collecting/extracting honey, as well as bee yard maintenance and the manufacture, assembly and the maintenance of hive equipment.

Work is in the Fraser Valley of BC until the end of blueberry/cranberry pollination, then colonies are moved to NE Alberta for honey production, working in Alberta til hives return to BC starting mid September.

Applicants must have a minimum of 1 year experience in commercial migratory beekeeping. Applicants should send resumes to Hossein Yeganehrad by email at jmcshiple@shaw.ca or mail 10473 Main St., Delta, BC V4C 2P7

---

#### Help Wanted: Mission (BC)

Apiary Harvesters / Labourers Golden Ears Apiaries Inc requires 9 Apiary Technicians (NOC 8253) (livestock attendant) at \$14.28/hr starting Feb1, 2018 until Nov 15, 2018. Apiary Technicians must have a min of 3 seasons working fulltime (40+ hrs/wk) in a Canadian style commercial beekeeping operation, and must have a good understanding of honeybee management and have the ability to independently assess hive health and make decisions regarding individual hive management.

5 Apiary workers (NOC 8431) at \$13.60/hr (40+ hrs/wk) from March 1,2018 - Nov 15, 2018. Apiary workers must have a min of 1 season working in a Canadian style commercial apiary as an Apiary harvester. Apiary Workers will be required to assist Apiary Technicians with day to day colony management, extracting and honey processing. All positions do require some evening, night & weekend work. All applicants must be in good physical condition and able to work in a team environment. English is an asset as well as a valid driving license. Work will be in southern BC (Fraser Valley) and Elk Point, AB. Accommodations available. Contact Carolyn Shipley, 33197 Ito Place, Mission, BC V2V-3W7 or jmcshiple@shaw.ca

### Help Wanted: Austin (MB)

New Rutherford Apiaries (4647204 Manitoba Ltd) located north-west of Austin, MB in the RM of North Norfolk (69033) requires two full time, seasonal apiary workers for the 2018 season. One position available March 20, 2018 to October 5, 2018 and one position available April 20, 2018 to November 5, 2018. Duties include helping with: honey harvesting and extracting, feeding and medicating hives, moving hives, making hive increases, queen rearing, building hive equipment, bee yard maintenance, and clean-up. Must have commercial beekeeping experience. Work is physically demanding, often in a very hot environment with weekend and evening hours required. Wage rate of \$11.75 - \$15.00/hour depending on experience. Apply to: Mike Lewis at: [mike-beehive@hotmail.com](mailto:mike-beehive@hotmail.com), ph: (204)-466-2551, fax: (204) 466-2894

### Help Wanted - Farmer Brown's Honey, Prince, SK

Full time seasonal apiary workers (NOC 8431) required for the 2018 seasons. (April through October.) Apiary Workers (2-3) - Beekeeping experience preferred.

These jobs are physically demanding, and sometimes repetitive. Applicants must be in good physical condition, willing to work as a team, and able to work around bees. No bee allergies.

40+ hours a week, working longer days and Saturdays may be required.

Preferences:

- English speakers with driver's license valid in Canada.

- Ability/willingness to work multiple seasons (2018 and beyond).

Wages subject to N.O.C. wage requirements, adjusted for experience. On-site accommodations available.

Cameron Brown, Farmer Brown's Honey, Box 173, North Battleford, SK S9A 2Y1, Tel: 306-445-3332, Email: [farmerbrownshoney@gmail.com](mailto:farmerbrownshoney@gmail.com)

### Help Wanted: Surrey (BC)

Honeybee Centre is seeking 7 apiary workers, March 15 to October 15. Pay is \$13.50/hour for approximately 50 hours per week. Minimum 3 years experience in beekeeping, including brood nest management, queen rearing, livestock production, honey production, and disease and pest control. Beekeepers are also required to clean, maintain, and assemble beekeeping equipment, and be able to operate small engine equipment, such as syrup pumps, grass trimmers, and bee blowers.

Beekeepers must be in good physical condition, able to work well with others, and be able to understand instructions in English, Spanish, or Chinese. Beekeeping protective clothing, smokers, and living accommodations are provided at a no charge. Beekeepers are responsible for their own food and luxuries. Please apply to Mr. Frank Schimunek at [frank@honeybeecentre.com](mailto:frank@honeybeecentre.com). More information at [www.honeybeecentre.com](http://www.honeybeecentre.com) 604-317-2096

### Classifieds: Honey Bees and Supplies for Sale and Wanted

#### For Sale: Nucs and Queens available 2018 season

Mighty Mountain Honey Farms

Nucs and Queens available 2018 season

Contact: Matt Nagy T: 250 306 9896 E: [mightymountainhoneyfarms@gmail.com](mailto:mightymountainhoneyfarms@gmail.com)

Specializing in queen and nuc production. We are offering queens and nucs as of May 15- July 15 2018.

Will have 600+ queens and 500+ strong 4 frame nucs available which are inspected and certified. Taking orders now! Our nucs consist of 3 frames of brood, 1 frame honey, 1 young proven laying queen. Pick up and delivery through private certified shipper is available as well for BC and Alberta.

Call, text, or email for information and pricing. Online ordering is available as well at <http://mighty-mountainhoney.ca/>

Thanks for your business Matt Nagy Mighty Mountain Honey LTD. PO Box 646 Lumby BC V0E2G0 <http://www.mightymountainhoney.ca>

#### For Sale - Single Brood Chamber Beehives

600 single brood chamber beehives for sale can be bought with or without pallets. Call Chris Hiemstra at 519 617 5503 or Albert DeVries at 519 868 9429 for more information.

#### For Sale - Cowan Extractor Conveyor

Stainless Steel Honey box conveyor, feeds up to 18 boxes to the uncapper 21 ft in length, 120 volt motor chain driven conveyor. \$2,500. Call Bryan 1(204)799-7973

#### For Sale - Cook & Beals 2-inch Honey Pump

2-INCH Progressive Cavity Honey Pump, 220 volt motor, 6 years old, \$2,600. Call Bryan 1(204)799-7973

#### For Sale - Cook & Beals Spin Float Wax Separator

This machine instantly separates the honey from wax, pollen and other foreign particles, 220 volt motor, Stainless Steel, \$7,000. Call Mike 1(204)899-9250

#### For Sale - Bachelo Honey Box Lifter

Pivoting honey box lift used for extracting, operates by air \$1500, call Mike 1(204)899-9250

#### PRE-ORDER:

Newly produced fresh royal jelly and bee pollen will be available around mid May. Please contact [mikibeefarm@gmail.com](mailto:mikibeefarm@gmail.com) for more information.

#### FOR SALE:

PACIFIC QUEENS hybrid Italian queens from CHILE. Hygienic behavior and pollen production.

Available JANUARY through MAY. [apiculturarey@gmail.com](mailto:apiculturarey@gmail.com). Contact Alejandra and Francisco Rey for more information.

#### FOR SALE: Chilean Queens

Order now for the 2018 honey season. We have Chilean Queens, 1.2kg Honeybee Packages for sale with Queens available from March until the first week of June and Chilean packages are available from March to April. In the middle of May until June we have 4 Frame Nucs with a new Queen that are locally produced and from June until the first week of September Alberta/ BC Local queens are available. Please contact us either by email or telephone for pricing & delivery dates. Chris Stewart (403)427-0472/ [castanedaystewarhoneyco@outlook.com](mailto:castanedaystewarhoneyco@outlook.com) / [www.castanedaystewarhoneyco.com](http://www.castanedaystewarhoneyco.com) or Lorne Newby at (250)506-0015/ [dchegutter@gmail.com](mailto:dchegutter@gmail.com)

#### \*BUSY BEE BEEKEEPING SUPPLIES

- we sell beekeeping equipment, hive parts, tools, protective clothing, honey containers etc - also candle making supplies, silicone moulds. We buy and sell beeswax. Located in eastern Ontario, we ship coast to coast. [www.busybeebeekeepingsupplies.ca](http://www.busybeebeekeepingsupplies.ca)

#### Nucs and Truck For Sale

- 360 Nuc boxes with bottom board and a lid, 5 frame, wax dipped, \$20 each, call Mike (204) 899-9250

- 255 Nuc boxes with inside divider with bottom board attached, 10 frame regular hive body, wax dipped, \$20 each, call Mike (204) 899-9250

- 2008 Ford Super Duty F-550

16' FLATBED REG CAB \* 6.4 POWERSTROKE DIESEL, white in colour, Automatic, 4x4, Air, Cruise, Tilt, Never Winter Driven, 163,000 kms, Safetied, \$32,000.

#### Wanted

25 Gallon or larger honey bottling tank with no drip valve. [steadybrook@eastlink.ca](mailto:steadybrook@eastlink.ca)

## Certified Honey Drums

Industry Standard - Double Rib

New or Reconditioned

New Rings - Bolt or Lever Style

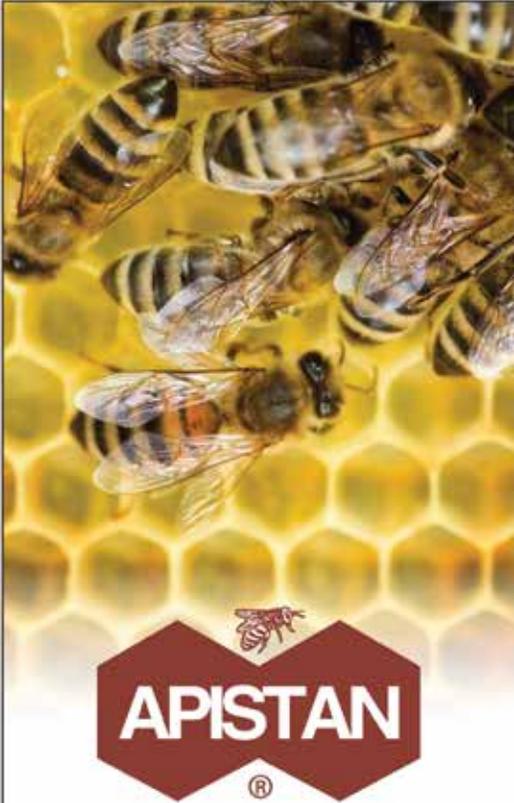
For ordering, please contact:

Oaknook Honey Products Ltd.

Ph: (204) 548-4060

Em: [info@oaknookhoney.com](mailto:info@oaknookhoney.com)





# A BEE'S BEST DEFENSE AGAINST THE VARROA MITE

Apistan® anti-varroa mite strips are an essential part of any varroa mite control program.

- The convenience of no-mess strips.
- Easy-to-follow application.
- Fluralinate, the active ingredient in Apistan® is released at a constant, controlled rate, targeting varroa as they emerge from brood cells.
- Tough on mites. Gentle on bees.
- Won't leave a residue in honey.
- Economical, Health Canada approved varroa miticide.

For additional information, contact your favourite bee supplies company or call 1-800-688-7378.

Always read and follow label directions.

Apistan and Apistan with design are registered trademarks of Wellmark International.  
©2002, 2009, 2012 Wellmark International.

10242012



# BJ SHERRIFF

EST. 1968



PROUDLY CRAFTED IN BRITAIN

## Specialist makers of fine quality beekeeping apparel



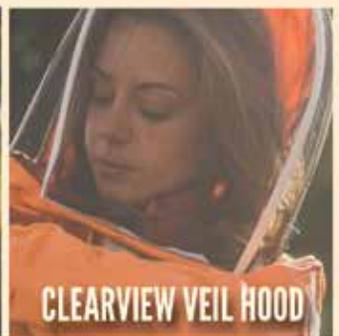
BEE FARMER VEST & HOOD



HONEY RUSTLER JACKET



APIARIST ALL-IN-ONE



CLEARVIEW VEIL HOOD

Trusted for over 48 years to deliver a range of robust and reliable safety work wear designed to last and last. Handcrafted in Cornwall, a BJ Sherriff is the only beesuit you'll ever need.

**Canadian  
Stockists**

**Alberta Honey Producers  
Co-op Limited**  
Alberta  
ccaines@beemaid.com  
001-780-962-5573

**Countryfields Beekeeping  
Supplies**  
Nova Scotia  
timpurdy@countryfields.ca  
001-902-576-3079

**Flying Dutchman**  
British Columbia  
flydutch@telus.net  
001-250-390-2313

**Propolis**  
Quebec  
defrance@propolis-etc.ca  
001-450-772-2637



# GIVE YOUR BEES THE EDGE ON WINTER

Make sure your hives are ready for a long winter. Pro Winter Patties will provide your colonies with food stores that are needed throughout the winter and as spring approaches so your bees won't find the cupboards bare. Pro Winter Patties provide carbohydrates and only a very small amount of protein, so your bees won't be encouraged to start rearing brood too early.

## Bulk Pro Winter Patties

FD-368 Bulk Pro Winter Patties 10 lb

..... \$19.95

FD-367 Bulk Pro Winter Patties 50 lb

..... \$66.10

*Easy to apply and no paper to mess with.*

**800-880-7694**

**MANN LAKE**  
WE KNOW BEES

An Employee Owned Company

[www.mannlakeLtd.com](http://www.mannlakeLtd.com)

\*Free shipping applies to most orders over \$100 sent standard ground service within the lower 48 states. Prices are subject to change without notice.

Proud sponsor of the Canadian Honey Council