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Hiveights

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Canada

Cover picture - Queen cells in plastic cups
coming out of cell builders.
Cover story - See page 13.



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.

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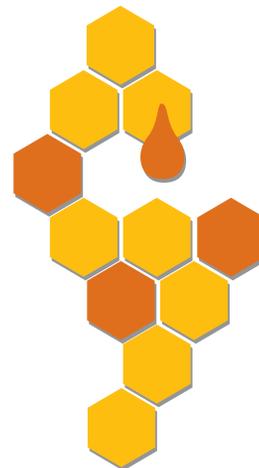
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Canadian Honey Council Report



Rod Scarlett, Executive Director, CHC

Perhaps the biggest news concerning the industry this year has been Health Canada's proposed exemption of honey from front of package labelling legislation. The Canadian Honey Council fought hard for the exemption as it not only seemed redundant, it would have certainly adversely affected marketing. Although still in the Gazette stage, it now appears most of the important labelling issues have been addressed. In the next couple months, the nutritional label for honey will be updated and posted on the CHC website. Issues such as type and label sizing, and various commodity specific descriptions have yet to be Gazetted but that should be occurring later this year.

Many of the provinces have been successfully negotiating with provincial veterinary associations in developing local antimicrobial policies. Certainly, some provinces are ahead of others and some have developed a template that may be successful in other jurisdictions. What remains a concern for the Canadian Honey Council is the lack of interprovincial coordination and the policy flaws that could result. There has been little discussion about interprovincial transport of bees for pollination, for example and how beekeepers will need to develop a patient-client relationship with more than one vet. Access to vets is still a grave concern, particularly for small and urban beekeepers who may not see the need to develop that type of relationship. Access to the appropriate drugs at an affordable price and some sort of level playing field for pricing across provincial borders should also be a consideration. Allan Campbell is representing

the CHC at a national roundtable where we hope at least some of these issues can be addressed.

While honey prices are recovering slowly, there have been concerns raised by some that American beekeepers are displeased that Canadians are selling their honey at prices significantly lower than what they are getting. This only began to happen a few years ago when prices were strong and American packers looked for alternatives to meet demand. Quality was replaced by pricing and as a result, packers were blending cheaper low quality "honey" in order to increase their bottom line at the expense of the American consumer. Packers have continued with that philosophy and Canadian honey producers continue to bear the brunt of that decision. It is my belief it is only when the public puts enough pressure on the American packers to distribute pure honey and not "suspect" honey will the price gap be reduced to normal levels. The Canadian Honey Council will continue to work with the American Honey Producers Association and the American Beekeepers Federation in promoting the purity and quality of our product as well as arguing for a fair price from American packers.

Despite the United States being our biggest, and perhaps best, trading partner, it is incumbent upon the CHC to work towards expanding our marketing opportunities. We need to diversify our markets and open up new opportunities. Over the course of the next few years expect to see the CHC involved more and more in trade issues and market expansion. The more market opportunities, the better off all honey producers will be. ■

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CAPA President Report 2017



*Dr. Medhat Nasr, CAPA President
Alberta Provincial Apiculturist
Crop Research and Extension Agriculture and Rural Development*

I would like to welcome you to the 60th Annual Meeting of the Canadian Association of Professional Apiculturists (CAPA). I would like to extend a special thank you to the organizing committee members, especially Shelley Hoover, who worked hard as usual to get this meeting organized with the Canadian Honey Council (CHC) and British Columbia Honey Producers Association (BCHPA).



Over the past year CAPA has continued to play an important active role to serve as a member of the Canadian beekeeping stakeholders. As the president of CAPA, I acknowledge the support and assistance I have received from our capable executive committee members: Vice-President Pierre Giovenazzo, Secretary Shelley Hoover, Treasurer Graham Parson, and Past-President Rheal Lafenier. I also wish to thank members of our standing and ad-hoc committees for their work during the last year.

The following is a summary of some of CAPA Activities:

1. Bee Imports committee

This year we had few issues with the bee imports. Geoff Wilson the chair and his committee members continued to work closely with CFIA on arising issues to ensure a steady supply of healthy bees and queens to Canadian beekeepers.

2. The Research committee

chaired by Leonard Foster was hard at work pulling together the research activity reports and preparation of the research workshop.

3. CAPA IPM committee

chaired by Jason Sproul has been busy working with Pest Management Centre to help in preparing the application of HopGuard registration to PMRA. Though CAPA IPM committee has no part in working towards the development of a process to implement the new policy for Antimicrobial use in beekeeping industry. PAs has been working through provincial agencies and Health Canada. Antibiotics will not be available over-the-counter and beekeepers must have a prescription for antibiotics to use in their operations starting December 1st 2018.

4. Africanized Bee committee

Dr. Amro Zayd and his committee prepared an excellent report that focused on new developed technology for identification of AHB and AHB status in the USA. This work will help in setting new standards for testing the Africanized bees in the future based on new technologies.

5. CAPA Committee for Apimondia – Montreal 2019

CAPA committee headed by Pierre Giovenazzo continues to prepare for this big international event. CAPA will continue to work with CHC to organize this international event. I am sure that CAPA members will continue to help and offer volunteers to ensure producing a first class successful event.

6. Honey Bee Health Coalition (HBHC)

Since 2015, CAPA is an ex-official member of HBHC. The “Honey Bee Health Coalition” formed by The Keystone Center (Keystone Colorado, USA). This organization mandate is to address the decline in honey bee and pollinator health. It aims to provide the best available tools and resources for improving honey bee health. In 2017 CAPA participated (Rassol Bahreini and Medhat Nasr) in developing an international proposal for screening new miticides to control Varroa. We hope this activity will inject some life into this project to make Varroa control more sustainable. please check the following link: <http://honeybeehealthcoalition.org/varroa/>

As this is my last year in my second consecutive terms as President. To my executive officers, committee chairs and members at large is a pleasure working with you!

I would like to make special comments on some major accomplishments: CAPA was presented at Senate Standing Committee on Agriculture and Forestry inquiry into bee health, we presented a balanced views on bee health and challenges facing the honey bees and the industry. The Wintering Loss Reports coordinated by the National Survey committee have been improved tremendously and gained the trust of many stakeholders as an official report of bee health status in Canada. As I look forward to the future, I am confident that the new executive will provide the leadership this organisation has long provided and is known for. ■



6th ANNUAL MANITOBA BEE PRODUCERS LIVE BEE AUCTION of BRANDON, MB. - WEDNESDAY, MAY 23 at 5:00 PM

Since bees are being consigned from Apiaries all over Manitoba, the sale will be conducted at Fraser Auction Service Barn in Brandon, MB. by video presentation. Buyers wanting to see the bees in person will need to do so prior to sale day. Seller contact information will be posted on our website so you can contact them for directions to hive yards and info about their bees.

This sale is open to consignment of live bees. Numbers will be dependent on winter losses of the consignors.

We are now taking consignments of all sizes of colonies for the sale. Singles / Doubles / Nucs.

All bees must be government inspected prior to the sale and test results will be made available to prospective buyers. Inspections must be arranged with Provincial Apiarists by sellers.

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• +/-1000 Dbl Brood Colonies went into winter. Hives all have home raised Queens. All colonies where treated with Apivar fall 2017, 2 rounds of Formic fall 2017, 2 rounds of Fumagilin-B (by Drench) fall 2017, and the plan is to do 1 round of Formic spring 2018 prior to sale if weather permits. All colonies on new 4-way pallets. • +/-3900 standard Honey Supers (8 frame w/spacers, painted boxes, majority have locking corners most are stapled & glued. Lots have 6 frames drawn comb and 2 new frames with foundation.)

TRUCKS:

• 1991 GMC Topkick w/17' Deck, Power tailgate & Kelley Hive Loader, 366 gas engine, 5 speed trans, near new rubber, under deck tool box, 128,670kms showing.
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Regional Reports



Maritimes



Mario Swinkels

Spring is here or almost here at the time of this writing we are in the most of a three day nor-easter. Hoping everyone has finished their winter works projects and can get back to beekeeping not just thinking about it. I find the mind pressure of early spring worse than the actual work load when we can finally get into the hives, almost like the bees when you're busy you're happier.

New Brunswick and Nova Scotia both recently held their AGM's. Both groups had good turnouts with people eager to learn from Jerry Hayes not only about RNAi but his vast knowledge of beekeeping outside of Monsanto.

His insight into bee diseases and management ideas were well accepted by all in attendance (he was the Florida state inspector for many years). The NBBA board is highly anticipating what effects the winter may have had on the recent SHB infestation. Spring will hopefully give a positive direction to their work on eradicating this pest. Nova Scotia with its boarders closed for pollination will be looking at ways to maintain a SHB free province. It was great to see so many PEI members attending both AGMs and their inputs were greatly appreciated. Each board will be working towards the ideas presented to them at the AGMs.

The NFLD AGM was held in November with Fletcher and Mary Colpitts bringing some New Brunswick knowledge. As well Robin McCallum brought ideas from the tech Transfer team. It is enjoyable to see the enthusiasm of such a small group as evident by their wonderful news letter.

Weather in the Maritimes has been mild compared to other years since December, cleansing flights were evident a few days. But we all know spring is our worst season with lots of cold damp challenges. Here is to a lot of strong hives this spring. Remember to get out early and check the weights of your hive.

Québec



Scott Plante

I am proud to be the chair of a great board of volunteers, who have an altruistic approach to this great beekeeping industry. I realise that as delegates from our individual associations we all have our regional objectives at heart. However, we must realize and accept that there are some issues that because of our regional differences cannot be accomplished at the national level. We must concentrate our effort on issues that we commonly agree on. Together we can forge a new direction for our industry and mend old wounds.

To this effect, since our last AGM in Ottawa on the 25th of January, we have been very active at the committee level evaluation different approaches and developing new tools for the industry. The stock replacement committee is reviewing the recommendations from the Bee Stock Risk Management Symposium Report in which was held in Winnipeg. Our pollination committee is actively developing new tools to support pollination as well to ensure its continued development. Our Interprovincial bee movement committee is looking for different options to harmonize the movement of hives and stock between provincial borders. I will keep you informed on the direction accepted by the board of the committee recommendations.

Canadian honey, as I have no doubt you are already aware, is a quality product

and it should fetch a quality price. To accomplish this, we are looking to facilitate the exports of Canadian honey on the world market. A director has been selected to research and evaluate promotional events which will help us reach this goal.

Apimondia is approaching at a fast pace and there are competitions to run! In the spirit of keeping this event a truly Canadian one. In the coming weeks you will receive via your delegates what has been allocated to your respective associations. We hope to have your full support. All monies generated from these competitions will be pooled and split in a fair and equitable manner between the associations involved.

As this is being written. Spring time in Québec seems to be slow and cold. Initial hive mortality does not seem to be consistent from one beekeeper to the other. Honey price seem to be holding around the two-dollar mark in bulk. The number of beekeeper in Quebec seems to be surging, numbers being thrown around are about nine hundred. In January the provincial government announced a new pesticide strategy that requires certain pesticides, including neonic, to have agronomical recommendation.

Je suis fier d'être le président d'un excellent conseil de bénévoles, qui a une approche altruiste de cette grande industrie apicole. Je réalise qu'en tant que délégués de nos associations individuelles, nous avons tous nos objectifs régionaux à cœur. Cependant, nous devons réaliser et accepter qu'il y a des problèmes qui, à cause de nos différences régionales, ne peuvent pas être accomplis au niveau national. Nous devons concentrer nos efforts sur les problèmes sur lesquels nous sommes d'accord. Ensemble, nous pouvons forger une nouvelle direction pour notre industrie et réparer les vieilles blessures.

À cet effet, depuis notre dernière assemblée générale annuelle à Ottawa le 25 janvier, nous avons été très actif au niveau des comités pour évaluer différentes approches et développer de nouveaux outils pour l'industrie. Le comité de remplacement des stocks examinera le rapport du Symposium sur la gestion des risques liés aux stocks d'abeilles à Winnipeg. Notre comité de pollinisation développe activement de nouveaux outils pour soutenir la pollinisation et assurer son développement continu. Notre comité interprovincial sur le mouvement des abeilles cherche différentes options pour harmoniser le mouvement des ruches et des stocks entre les frontières provinciales. Je vous tiendrai au courant des orientations acceptées par le conseil d'administration des recommandations des comités.

Le miel canadien, comme vous le savez sans doute déjà, est un produit de qualité et il devrait recevoir un prix de qualité. À cet effet, nous cherchons à accroître la présence du miel canadien sur les marchés mondiaux. Un directeur a été sélectionné pour rechercher et sélectionner des événements promotionnels qui aideront à promouvoir notre miel sur la scène mondiale.

Apimondia approche à un rythme rapide et il y a des compétitions à s'occuper ! Dans les semaines à venir, vous recevrez par l'intermédiaire de vos délégués ce qui a été alloué à vos associations respectives. Nous espérons avoir votre soutien total et sans réserve. Tous les fonds générés par ces compétitions seront regroupés et répartis de manière juste et équitable entre les associations impliquées.

Le printemps 2018 au Québec semble être lent et froid. Les mortalités initiales de ruches ne semblent pas constantes d'un apiculteur à l'autre. Le prix du miel semble se maintenir autour de la marque de deux dollars en vrac. Le nombre d'apiculteurs au Québec semble avoir augmenté, les chiffres seraient d'environ neuf cents. En janvier, le gouvernement provincial a annoncé une nouvelle stratégie sur les pesticides qui exige que certains pesticides, y compris les néonicotinoïdes, soient assortis de recommandations agronomiques.



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Ontario



Albert Devries

This past winter, temperatures have been highly variable. Bitter cold followed by mild spells caused sudden melting of snow and led to hives being flooded in places that had not previously been known for it.

Very warm weather this fall may have thrown off the timing of mite treatments and feeding. There has been some reports of high winter losses coming from different areas of the province. As spring progresses we will get a much clearer picture of the condition of our hives.

The demand for blueberry pollination seems like it will be similar to last year but there is still time for it to

improve.

The OBA is making progress in regards to being able to access anti-microbials for honey bees. We have been having discussions with the Ontario College of Veterinarians regarding training of vets and our ability to obtain prescriptions.

Last summer was difficult for most Ontario beekeepers. The summer was wet and cool followed by record heat in the fall. Poor hives coming out of winter may be our legacy from last year. We hope this summer will be better.

Saskatchewan



Jake Berg

My name is Jake Berg and I am the new Saskatchewan CHC Rep from the Saskatchewan Beekeepers Development Commission. I have served on SBDC board for the past 8 years and am looking forward to taking on this new role as the CHC Rep. I keep bees in Melfort, SK with my wife, Cindi and three kids and with my business partner, Stacey Zosel and his family.

I am also the new Chair of the CHC Labour Committee. At the time of writing this article, there have been a few complaints about LMIA's being held up for various reasons. Please let me know if any problems or areas of

trouble arise with the TFW or SAWP programs as well as to your provincial Labour Committee Member.

Being it's early March, I haven't heard of anyone in Saskatchewan checking bees outside just yet. With the cold winter we had, I suspect our outside winter bees to be extra light this spring. Our bees, wintered inside, look fairly strong but time will tell what spring will bring.

Congratulations to Dani Glennie! Dani is a new momma to baby Orin Pepper Ottenbreit Glennie born on February 12. We wish you all the best!

Manitoba



Allan Campbell

It will probably come as little surprise to most readers that it is still indeed winter in Manitoba at this time. As such, there are very few reports of how hives are looking and really it's too early to be very useful as an indicator of overwintering success, there is still a few weeks left before you'd say we rounded the corner on spring time. Bulk honey sales were stronger for the 2017 crop than we've seen in a couple of years; though I believe there's still honey available on the market and I hope prices continue to climb for those whom are waiting to sell.

In January we held our AGM in Ottawa at the same time as the Bee Health Roundtable meeting. Continuing in my role as hive health chair, I have stepped up to fill a vacated seat at the roundtable. I'm looking forward to continuing my work in the field of supporting hive health. It is in this capacity that I had the opportunity to interview, along with Jerry Hayes and Mathew Mullica, the winners of the Honey Bee Health Coalitions Nutrition contest winners for an update on their projects in the nutrition field. It was an exciting look into some new and novel approaches to how we will support bee health in the future. Watch for updates on the projects to be published in the coming weeks.

One Health approach to Antimicrobial Resistance- In March I attended an Ottawa workshop to address AMR and it's implications for human health. Made up of stakeholders in both the human and animal health sectors as well as representatives from universities, pharmaceutical companies and government, we were brought together to discuss opportunities to address the issue proactively and

to identify barriers to implementation of reducing our dependency on them. We need to recognize that antimicrobial resistance does have very dire consequences on human health; if or when we lose efficacy of antimicrobials that are important to treating human infections, people will die as a result. At the same time though, I challenge the regulators to show us beyond a doubt, the pathways of resistant pathogens from our honeybee industry to human health. In human and other animal sectors, this might be by direct contact or through the spreading of waste for fertilizer. Even 60% of human waste, as I was told, ends up in our aquifers and spread as fertilizer. This is not the case however with honeybees.

Veterinary oversight requiring prescriptions for class 1 & 2 antibiotics (Oxytet&Tylosin) considered very important to human health is the federal government's answer to the problem that I'm not sure even stems from our industry. My concern is that they have completely overlooked the fact that we have our very own bee labs, and our very own entomologists and bee experts that are more than qualified to diagnose and licence our use of these products. Introducing veterinarian oversight will only muddy the waters, wouldn't it be simpler and more effective to let our current regulators handle the new regulations than to introduce something like 8500 beekeepers in Canada into the same pile as cows, pigs, chicken and sheep, or small companion animals? We will continue to work on this file and will keep you posted as to new developments.

Transparency and Communication- Social media and communication with our industry and the general public is something that has received little attention across large swaths of our beekeeping industry. A few of the bee organizations across the country were relatively early adopters compared to us here, but I'm happy to say that we are taking steps to be better communicators at both MBA and at CHC. You can now follow the social media accounts of both organizations on Facebook. I am managing the account for Canadian honey council and will be happy to interface with you on any issues facing your farm or concerns you have for the industry at large. The position doesn't come with any super powers or even a cape or costume, but hopefully I can help make CHC more accessible to you and open direct lines of communication with the board and our Executive. Come search

Alberta



Neil Specht

The first job I've taken is the pollination group.

The pollination group consisting of, Stan Reast, Shelley Hoover, Greg Sekulic, Scott Plante and myself. The group is looking for information that is specific to crops and the contracts associated with them. Using the Canadian honey council website we hope to post information pertinent to crop specific pollination in Canada. Our problem is that the information is associated with different parts of the country at different times of year.

I'm asking you to please help by answering a few questions. Our work is collating information for the Appendix's found in the contract supplied by the Quebec beekeeping Federation.

- 1: descriptions of the average hive and hive components market value?
- 2: crop specific pollination criteria. Like what crop and the hives per acre?
- 3: prices paid per beekeeper based on the number of the frames delivered where (location) and at what time of year?
- 4: anything else that is specific that you can share.
- 5: was there \$\$ consideration for distance bee management?

Please email your information to my self Janeil@sasktel.net your names will not follow the information I collect. My plan is to collate the information into crop specific pollination practices for the CHC Webb site, Like a Farmer, beekeeper communication guide and a Plug and play downloadable contract. We are also looking for crop specific agronomy around pollination for both parties.



Terry Greidanus

I write this just as we are receiving another blast of winter on March 15. It looks like it's going to be a while yet before spring comes. In the long term forecast it doesn't look like I'll be able to inspect any bees for a while yet. Hopefully there's enough food stores in the hives to carry me through until April. In regard to Alberta there's been no reports as of yet as to winter losses. Honey seems to be moving steady and the prices seem to be stable and not fluctuating very much.

I also need to report that Gertie Adair has resigned



Mite Away Quick Strips

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

FEED PRIOR TO APPLICATION: Colonies need to be well fed prior to treatment. Cease feeding during the treatment period(s).

BEFORE SPLITTING: Treat 2 weeks before. (1. FEED 2.TREAT 3.SPLIT)

FOR HONEY: Maximize healthy colony populations by treating with Mite Away Quick Strips® 4 to 6 weeks before main honey flows. Have extra supers on to give bees a place to move up and expand.

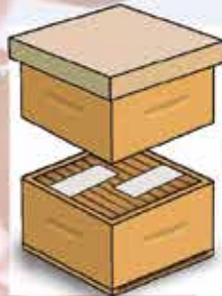
FOR OVERWINTERING: Treat at end of the honey flow, while the last super is still on, add additional boxes if bees do not have room to move up and expand. 2-3 brood cycles before Queen goes off-lay.

TEMPERATURE: Between 10°C (50°F) and 29.5°C (85°F) on day of application. Maximum temperatures should not reach above 32°C (90°F). **Bees need to be flying regularly** during daytime highs, therefore it should not be raining during the first three days of treatment. Nighttime temperatures below 10°C (50°F) are acceptable.

VENTILATION: Full width of hive, minimum 1/2 inch high. If using bottom boards with limited entrances, set-back second box by 1/2 inch to give fresh air access. Screen bottom boards should be closed off or anticipate a decrease in efficacy due to Formic Acid being heavier than air. Upper entrances and screen bottom boards are not additional or sufficient ventilation sources.



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2 STRIPS
APPLIED ONCE**

APPLY 2 STRIPS
AT DAY+0 FOR 7
DAYS.



**21 DAY
1 STRIP
APPLIED TWICE**

APPLY 1ST STRIP
AT DAY+0 FOR 7
DAYS. APPLY 2ND
STRIP AT DAY+14
FOR 7 DAYS.



FORMIC ACID



TIME OF APPLICATION: Use when outside temperatures are 10°C to 30°C and leave hive entrances fully open. Do not use when honey supers are in place. Honey supers may go on the hive after the absorbent material containing Tracheal Mite Treatment has been removed from the hive.

AVAILABLE QUANTITIES:

- 1 Litre
- 4 Litre
- 20 Litre
- 208 Litre

1 L of 65% Liquid Formic Acid contains enough product to treat a hive approximately 4 times. Comes with full instructions and safety datasheet.



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her position as our General Manager. I would like to say that I have enjoyed working with her for as long as I can remember, numerous years. She will be greatly missed in our province as she was a valued asset to the operation of our commission. The Board of Directors appreciates Gertie's long history with Alberta Beekeepers and all that she has contributed to the industry.

As you are probably aware we now have Connie Phillips working with us as our Executive Director. Her email is connie.phillips@albertabeekeepers.org and her contact cell is (780)289-5604 the office number is still being managed, and while someone will not always be there, messages and mail will be checked and taken care of.

We are in the process of hiring someone to fill the position of office manager. Hopefully we will have someone soon to fill this position

I would like to take this time to say that I am very optimistic about the upcoming season, with the snow we have on the ground here, hopefully it will all soak into the ground and turn into lots of spring flowers. I wish you all low winter losses and a bountiful season.

British Columbia



Stan Reist

We just finished having our Semi Annual meeting in Kamloops. It was earlier than past years and had indications of having travelling problems with snow and ice. We were lucky getting through the Coquahalla on Thursday, up on the top it was a brown mud trail, but otherwise clear, however the hiway was closed from Thursday evening to Friday morning because of snow, but we were already in Kamloops.

The attendance at the business meeting was approximately 60 members and at the education day there was approximately 120 participants from across the Province.

The meeting was the usual reports from the executive, and a report from Growing Forward Project report in the Central Interior. We also had an update on the wildfire recovery from last year's wild fires in the interior. There were only four reported claims but there was also some confusion about the Red Cross handling the claims.

There was a proposal to rebrand the BCHPA to make us and our products more recognizable. There was a motion to hire a professional designer to do the logo work etc. There was a short discussion and it was passed. When the update on the Blueberries project was given, we found that we had enough money and in-kind support to carry out sampling this year when the hives are in pollination and then do the testing next winter. We have Approx \$120,000 in which to do this project. We do not have enough money to finish the survey but we will start and go as far as we can, pending more funds to cover costs.

We also have joined in the Foulbrood Survey and Carlos Castillo will be doing this out of Beaver Lodge Research Station in Alberta. There was talk about replacement stock and availability of such. By all accounts, there is a good supply of Nucs and there are a lot already committed, however, there was a report of some surplus nucs had not been sold. All in all the business day went off without any problems.

This year's Semi Annual was a bit early in March, like package season. Yes, we have received our early packages from NZ and this year they were absolutely great. We will have to talk to the powers who have control of the meetings and get them to move the semi forward a week or two, so we can complete this task. Sales were slower than usual, however, about 4 days after the deed was done, the phone started ringing off the wall asking if we had any packages left. There were about 250 packages in one shipment that were not spoken for but they disappeared in 1/2 day once the word went out. We have also had a good number of inquiries from the Lower Mainland about hives for pollination, packages and Nuc availability.

The Key Note speaker for the Education day was Andony Melathoplos from Oregon State University. He is an Assistant Professor who leads Oregon State University's efforts to design, implement and evaluate a State wide Pollinator Health Program. Each year he provides training to over 1500 pesticide applicators on how to reduce pesticide exposure to pollinating insects. He hosts a weekly podcast on Pollination Health (pollination) and is currently working on a number of education products designed for helping homeowners and landscapers better understand how to manage pests while minimizing impacts to pollinators. He also sits on the steering committee of the Oregon Bee Project, which coordinates pollinator health work across state agencies. He has over fifteen years of experience in pollinator health extension, which includes over 30 peer reviewed papers, speaking at industry and public meetings, writing for trade journals conducting qualitative risk assessments for Government Agencies and developing public education activities and developing public education activities.

Bill Stagg gave a talk on how and his wife manage their Sweet Acre Apiaries

in Tappan in the Shuswap Lake Region of BC. Heather Higo explained how her sampling and testing in an effort to develop new technological tools to enhance our breeding selection capabilities and improve the bee industry. She is currently working for the University of British Columbia. Dr. Leonard who has also been working for UBC, gave an update on his work with DNA. Dr. Carlos Castillo gave his update on the Foulbrood Survey at Beaver Lodge in Alberta.

Dr. Peter Awram presented his proposal for an MRI machine for testing honey for foreign substances used in adulterated honey. This is a major annoyance right now as Canada is being suspected of shipping adulterated honey into the US. There is a lot of talk about this (we have proof that Canada is doing this) but to date I have seen no actual proof. However, the accuser did want to know how we dodged the bullet on front of package labeling for honey and could we help them. While this is in the early stages, Peter has secured a grant to start work on collecting honey samples to start the data base. There were questions about who would then own the data base etc. I have heard that the use of this process has greatly decreased the incidence of fraudulent honey going into the EU at this time and I guess the question is, how long will it take for the fraudsters to baffle this process. For this to go forward, Peter is going to need a lot more funding to carry on. How that's going to happen is up in the air right now. It is definitely something we really have to work to get it up and running to protect our honey industry.

Talking of our industry, I was in Southern Ont. in January to attend the Bee Health Roundtable and the CHC AGM. When that was finished, I went home to Kitchener to visit the in-laws and outlaws and renegades. I visited the Kitchener Waterloo Farmer's Market in north Waterloo where my cousin has a booth and has had for many years. There was a Lady from Hensall Ont selling honey which was a very nice display and booth. When I went shopping with my sister at a local grocery store I just had to snoop and see what was on the shelf for honey, to my surprise most of what I saw was a blend of Chinese and Argentinian. (If I looked in my own back yard I would probably find the same thing so I don't think it's limited to Ont.) Going through the checkout, I mentioned this to the cashier and she said there was more honey in a different area of the store and that they had local suppliers. I guess I am not used to seeing it in a couple of different areas (didn't see it). In the last couple of years the price of our prairie honey has been in the dumper, \$1.05 lb. for a really good product. So, why are we seeing a blend of offshore product on our shelves when our own producers almost can't give it away at below cost of production. The US is accusing us of dumping but their packers are probably using our good product to make huge profits and blending it (My speculation). Something's really rotten out there somewhere.

The Canadian Govt under the Market Access Secretariat is funding part of the cost to find new export markets for our honey. We are able to send delegates from the CHC on these trips and have come away with buyers in foreign countries wanting to buy honey. As the CHC, we do not have honey to sell but we return and then pass this info on to producers. We keep telling producers that there is a market for your product. The catch is traceability and residues. Most of the producers are doing 85 % of the work but not dotting the i's and crossing the t's. We have the C-BISQUE program which again the Government has funded us to produce and implement but the up take is painfully slow. Are we stuck with producers being producers and they are not interested in marketing their own product or what? If that is the case, then, does the CHC have to create a new marketing arm to secure foreign markets for honey, there by shrinking the availability of surplus honey for the American Market. They would then no longer able to buy our honey at ridiculously cheap prices. Something to think about.



Bernie Rousseau



In 2004, the Fiftieth Anniversary Scholarship was created to commemorate the formation of Bee Maid Honey Limited in 1954. The Scholarship recognizes and encourages children and grandchildren of members and staff as they enter post-secondary study. The Scholarships are designed to stimulate the pursuit of excellence by rewarding outstanding achievement. The scholarships are also intended as a process by which young people can bring fresh ideas and attitudes to the Bee Maid family. Recently, the Scholarship was opened up to students participating in the Commercial Beekeeping Certificate Program at Fairview College in Grand Prairie or Alberta Kwantlen Polytechnic University in British Columbia.

Bee Maid Honey Limited is pleased to announce that winners for the 2018 Fiftieth Anniversary Scholarship are Vanessa Brown from Saskatoon, Saskatchewan and Michael Day from Aldergrove, British Columbia. Congratulations to them both and we wish them the best of luck in their studies.



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Are Inferior Queens a Result of Contaminated Pollen?

By Karen Pedersen and Gil Pedersen of Pedersen Apiaries Ltd.

I think we've all heard or said, "Queens aren't surviving as long as they used to." I think we've also all heard, "Where are your records to show that? Give us something to start with." Like every other beekeeper, we have limited time, so we only keep records that have a practical purpose and can tell us something. In 2011, we started to notice a problem in our operation. While we have always kept good records, as the years have progressed since 2011, our records increased to track that particular problem. This is not going to be the story of a nice experiment where we were able to hold variables constant to isolate a certain response. Instead it is a messy story of trying to figure out the answer to a problem through observation, increased record keeping, and trying to make small changes. Our experimentation has the advantage of drawing on a large sample, but because we're a commercial farm and not an academic research facility, and were looking for a particular desired result (viable queens), that also resulted in certain biases. We surpassed the level of our competence long ago, but until someone else with competence volunteers to help, it will continue to be something that we must endeavor to do. Our purpose in writing this article is first to seek to find out if other beekeepers are seeing similar problems and secondly to find out if there is a researcher out there who might have the answer to our problem.

Pedersen Apiaries is a multi-generational commercial honey producing operation near Cut Knife, SK. Sometime in the late 80's, Pedersen Apiaries started grafting queen cells to raise queens for our operation. By that point we were overwintering our bees and it made sense to breed from the best of our own stock. By the late 1990's we had refined our queen raising process. We bred



A scale attached to a Billet Ezyloader is used to track honey production for evaluating queens.



Lots of young bees are enclosed into swarm boxes with a minimum of 1 comb of pollen and 1 comb of liquid honey.

from queens that had survived 2 winters and had out-produced their neighbouring/sister hives the summer between those winters. Not only were the winters and poor honey production culling out poor queens, so were our fingers as we judged them for not building up in the spring, for being defensive and for showing signs of diseases. We grafted queen cells into swarm

boxes of bees that are broodless, closed boxes with lots of pollen, liquid honey and young bees. After 24 hours, the queen cells were transferred into the top box of cell builder hives. Each cell builder hive was queen-right in the bottom brood box, which was separated from the top cell box by an excluder and a honey super. The top cell box had hatching brood and lots of pollen beside the cells. On day 14, the queen cells were separated and moved into separate tiny mating nucs to hatch and get mated. From there they were marked and transferred to our own hives or sold. The only real change we made to the process occurred somewhere around 2004, when we converted from using a Jenter comb to graft cells to hand grafting into homemade wax cups. Raising our own queens had become an integral part of our commercial honey operation.

2011-12

Typically, we expected at least 75-80% of the queen cells to develop into full cells. We had no reason to track how many actually did develop into full cells and so we didn't. As long as most of the batches were successful, we were happy. In 2011, the last couple of grafts had a significant drop in the success rate. We still didn't record it because it was the end of the season and it just seemed like a blip. We had enough queens for the year, so it wasn't a huge loss. However, in 2012, our success rate of developing grafted queen cells into full queen cells had dropped to 30% and I was frantically trying to figure out what was going on. I was blaming it on the weather, but I also tried changing some other things, but it was all to no avail.

2013

By 2013, we started systematically trying to figure out and track what we might be doing that was causing the queen cells to die. We hypothesized that that our equipment was carrying a virus or other pathogen that was causing the queen cells to die. We started with new cell combs, cell bars and wax to make the cell bars, making sure that it was both new wood and new wax. I disinfected my grafting tool and the place where I graft. I had someone else try grafting to see if I had just lost my skill or eyesight. None of these changes had any effect.

We contacted Geoff Wilson M.Sc., P.Ag. Saskatchewan Provincial Specialist in Apiculture for help. He came to observe and critique our grafting on June 18, 2013. Geoff said that he could see nothing wrong with our method. As per his suggestions, we tried both plastic cups and wax cups to compare, we tried bee polished and not polished cups and we tried transporting the swarm boxes at a crawl. We bought a brand new grafting tool, used fresh water in a glass jar as opposed to a plastic bottle, and used a new frying pan without a Teflon coating and more new wax to make new wax cups. He was suggesting that perhaps we were seeing a residue problem in our process that was ending up in the water or wax. He also suggested that we closely observe the cells when they were being transferred from the swarm boxes to the cell builder hives to determine if the cells were still alive at the 24 hour stage. We marked those cells grafted with the changes versus those done in the same way we had always done them and waited to see if there was any difference.

We determined that the grafted queen cells were dead within 24 hours of being grafted. They died within the swarm boxes. We learned that plastic cups gave us a better success rate than wax cups, but still did not make a huge difference to the success rate. We ascertained that we still had not identified the cause of the queen cell deaths. One batch had an 80% success rate, but we could not correlate it to any changes we had made or not made. The other batches ranged from a 6% to 50% success rate and also seemed to have no correlation to the changes made or not made.



Mating nuc with cells just introduced.

The difference in the plastic cups versus the wax cups was the only clue that led us to looking for other possibilities of chemical residues that might be making a difference. By that time our short season was over. We thought we had enough queens for ourselves, but barely.

Unfortunately, the pain continued the next year as the queens we had raised proceeded to die over winter or supersede. They just didn't last like they should. By this point, we were tracking the success rate of the queen cells from grafting to mating nuc, but we still weren't tracking right from the grafted batch to the queen in the hive. We knew their parentage, but could not correlate it to the exact batch of cells and the success or failure of that batch or at what point in the season they had been raised.

2014

In 2014, we hypothesized that there was a chemical residue in the pollen being fed to the queen cell larva that was causing them to die. We further hypothesized that the residue was from a fungicide since the problem of queen cells dying seemed to coincide with when widespread fungicide spraying of cereal crops and canola began in our area. We also wondered if nosema spores might be causing the problem since emerging research on nosema cerana seemed to indicate that the beekeeping industry understood little about it.

We collected combs of pollen in the spring of 2014 from our deadouts, separating it into 2 lots. Lot 1 came from two beeyards where there was much less availability of cultivated crop land (and thus canola) for the bees. Lot 2 came from the rest of our beeyards that are predominantly surrounded by agricultural cropland. (We will refer to these 2 groupings as Lot 1 and Lot 2 in the rest of the article to refer to the separation of the pollen by location. In future years, the pollen was mostly sourced from live hives during the season.) We collected two random pollen samples from each lot to send to a lab to be tested for residues. We were unable to find a lab that could test for all of the possible chemicals that were



Queen cells in plastic cups coming out of cell builders.

sprayed in our area, but we found a lab that would test for a lot of them. The results came back saying that there was no measurable residue above the acceptable limits in either sample. However, since to my knowledge there is no research confirming a safe dosage of chemicals fed to *apis mellifera* larvae (particularly queen larvae), the test told us nothing useful.

The pollen that we had separated out from the hives in Lot 1 was then used in the swarm boxes with the grafted queen cells. Every week, with the exception of one, we prepared the swarm boxes with pollen from Lot 1 and grafted into plastic cups in our traditional manner. I will admit that because we are still commercial honey producers, rather than professional researchers, we specifically used pollen from Lot 1 rather than Lot 2. Our first goal was to get queens. Our second goal was to figure out what the problem was and we make no apologies for that. With the exception of that one week, our success rate ranged from 75 – 85%. In the one week that was an exception, we used pollen accidentally from both Lot 1 and Lot 2. That week, the success rate dropped noticeably, ranging from 30-80% in the different boxes. This certainly wasn't a conclusive answer, but after 2 years of dismal failure, it was enough to give us hope and encourage us to believe that we might have at least partially identified our problem. In 2014, we also fed all of our hives one dose of Fumagillin B in syrup the spring. We then fed 50% of the first batch of swarm boxes, Fumagillin B while not feeding the other 50%. We could see no difference in the Fumagillin B feeding.

2015

In 2015, we continued to separate the pollen from the yards into Lot 1 and Lot 2. Then we used pollen from both lots in the swarm boxes with the grafted queen cells while tracking where the pollen was from and what percentage of the queen cells developed into full cells.

The lowest batch coming out of the swarm boxes was 36% which still indicated a problem, but the next lowest was 69%. These 2 low batches were from boxes that used pollen from Lot 2. In contrast, the lowest success rates of



Cell builder hives.

batches from Lot 1 were 75% and 78%. However, while indicating that we might be on to something the results were inconclusive because the average success rate coming out of all of the swarm boxes was 94% and that included pollen from both Lot 1 and Lot 2.

So, we weren't able to recreate a consistently high death rate of the cells in the swarm boxes. Since realizing that the cells were dying in the swarm boxes, the cell builder hives had not been of much concern. They mostly raised the live cells that they received. However, in 2015, cell development in the cell builder hives became much more inconsistent. The lowest development rate in the cell builder hives was 8%, and ranged up to 100%, with an average of 76%. We did not have enough collected identified pollen to use in the cell builder hives, so mostly random unknown pollen was used in those hives. Therefore, we started to systematically collect pollen from hives during the summer and fall of 2015 noting where it was from and during which season it was collected. We don't have the capacity or knowledge to identify the

pollen microscopically, but we are in the hives often enough that we can identify pollen by season and colour with some accuracy. For example, bright yellow pollen in the spring is most likely willow and would not be canola, but bright yellow pollen in July would more likely be from sweet clover or canola, but would not be willow. By this point, we were identifying pollen as to where it was from, what season it was collected and whether or not it was canola pollen. We labelled each comb of pollen by which bee yard it came from and either what type of pollen it most likely came from or the time of year that it came from. Our hypothesis had narrowed to the point that we thought it was canola pollen that was the problem. Whether that was because of fungicides, another type of chemical, or a varietal issue, we had no idea.

2016

By 2016, 5 years after we first noticed the problem, we were now tracking which pollen we used in both the swarm boxes and cell builder hives and the percentage of queen cells that were surviving in each. We were now mostly stealing combs of pollen from live hives and storing it until the next season so that we actually had a better idea of when it was collected and what it was. We were differentiating and tracking whether pollen was from Lot 1 and Lot 2, as well as whether it was from spring or summer. We were still prioritizing getting queens over doing research, but by then we had realized it was also important to track the pollen right through the life of the queen cell that survived. Was the longevity of the queen determined by the pollen that it was raised on?

In 2016, the average survival rate coming out of the swarm boxes was 93%, however, the median was 97%. The average cell development coming out of the cell builder hives was 81% and the median was 90%. There were only a few batches that were low in 2016, but 4 batches, in particular were exciting to find. In 2 of those batches, cells from two different queen mothers, put into 2 different cell builder hives, dropped from a 94% success rate coming out of the swarm boxes, to a 50% success rate coming out of the cell builders. In the end, from those 2 batches, only 7% of the originally grafted queen cells survived to become a 2016 queen going into winter. Then other two batches of



Hive ready to be wrapped for winter.

cells of note came from the same queen mother. They were put into a swarm box and came out of the swarm box at a 50% success rate that further dropped until only 4% of the grafted cells were still alive to go into mating nucs and none made it to queens. The common denominator between those 4 batches of cells in both the cell builder hives and the swarm boxes was canola pollen that came from one beeyard. We had no other pollen that came from that particular beeyard. Therefore, we put 2 combs of pollen into cold storage at a research facility, one from the swarm box with problems and one from a swarm box without problems. We think we have identified a problem and maybe even a smoking gun. The problem now is to find who has the technology to

test for what the problem is. Sending them to a lab that will not test for everything and will not test below the set acceptable limits is a total waste of time and money. We are definitely past our level of competence, but what else can we do?

We are still learning how to track the pollen straight through from queen development to the queen longevity. It has added quite a bit of detail to our record keeping, but it is looking promising. Obviously, we have to continue tracking to see whether or not we can find another comb of pollen that shows such striking differences in queen development. From a research and investigation viewpoint, the challenge is that the more we learn, the less we want to risk using canola pollen in queen development.

2017

The winter of 2016-2017 was a long winter with a cold spring which was hard on our bees. Our losses meant that we couldn't afford to risk losing more hives on the possibility of non-viable queens. As a result, we specifically chose to avoid feeding the combs of pollen that we had collected from Lot 2 or more specifically we chose to avoid using combs of pollen that we thought might be predominately from canola. While we couldn't completely avoid canola in our area, we tried to avoid using pollen from beeyards with significant exposure to canola. The average survival rate coming out of the swarm boxes was 89%, however the median was 94%. The average cell development coming out of the cell builder hives was 82% and the median was 88%. This year, the lowest percentage of cells coming out of a swarm box was 56%. That swarm box was fed by summer pollen so we could not rule out that it had canola pollen in it. The first batches coming out of the cell builders averaged 58% which we judged was because of the cold spring and the cell builder hives not being strong enough. Later in the season, we had only one other batch of cells that stood out. They dropped to 35% and 56% in the cell builders that they were put into. Again, they were fed summer pollen that could have had canola pollen. We neither conclusively proved nor disproved our hypothesis.

Conclusion

While we know we have a problem, we are a long way from being able to identify its cause or solution. It would be easy enough to argue that our hypothesis is doubtful because we still had problems in 2017. We would like nothing better than for someone to definitively prove that our hypothesis is wrong. That would save us countless hours going down the wrong path trying to track this problem. It would certainly simplify our lives if we didn't have to worry about avoiding canola. However, at this time canola pollen is the only factor that we have been able to identify as possibly holding the key to answering our problem. At least we have a large sample size and some of the records that might help narrow the search. If you have noticed similar problems, please let us know. It should be widespread if our hypothesis is correct. If you have experienced the problem and found a solution, we would really like to hear that. This isn't clean academic research. We are trying to find out if anyone else is groping around in the dark with us.

Gil and Karen Pedersen are a father/daughter duo. They are commercial honey producers who run single brood chamber hives all year round. They are based near Cut Knife, SK, Canada. They can be found at www.pedersenapiaries.ca. ■



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Honey Bee Health Coalition - Coalition Buzz

by Mike Saccone

Honey Bee Health Coalition Unveils First Ever Set of Tools, Resources to Help Soybean Growers Support Pollinators, Reduce Pesticide Exposure. Best Management Practices Include Information on Pre-planting Planning, Harvest, Use of Cover Crops.

The Honey Bee Health Coalition unveiled today a series of tools and resources on best management practices for soybean growers — the first of its kind for soybeans — to support honey bee health and to help protect pollinators in and around soybean fields. An expert team of extension agents, agronomists, entomologists, beekeepers, soybean growers, and crop consultants developed the best management practices. They include strategies to identify potential impacts of soybean agricultural practices on bees at each stage of soybean production and suggest strategies to mitigate these impacts.

Pollinator habitat and the plants bees rely upon often border soy fields throughout North America. Soybeans can be an attractive source of pollen and nectar under certain circumstances.

“Honey bees and soybean farmers are both essential to modern agriculture. That’s why the United Soybean Board and the Honey Bee Health Coalition worked together to develop first-of-their-kind best management practices to improve the health of bees in and around soybean fields,” said Meagan Kaiser, a Missouri farmer and United Soybean Board leader for sustainability initiatives.

Soybeans are the second most planted crop in the United States, and with fields covering more than 80 million acres.

“These lands and the land around soybeans are vital for honey bee and other native pollinator forage,” said Chris Hiatt, vice president of the American Honey Producers Association. “These best management practices will elevate this issue and lead to better communication and in-field practices that keep bees safer. Similarly, almond best

management practices have been effective at protecting bees from incidental insecticide exposure during bloom while ensuring a productive crop.”

The Coalition, a diverse group of nearly 50 organizations working to improve the health of honey bees in general and specifically around production agriculture, announced the best management practices today at the Commodity Classic tradeshow.

“The Coalition is dedicated to finding new ways to foster collaboration among farmers, beekeepers, and other stakeholders working to support pollinator health,” said Julie Shapiro, the facilitator of the Honey Bee Health Coalition and a senior policy director at the Keystone Policy Center. “These best management practices are a step in the right direction to ensuring growers have access to the best bee-friendly resources, information, and strategies possible.”

These voluntary best management practices complement information already available to growers, including mandatory pesticide label instructions and advisory warnings.

About the Honey Bee Health Coalition

The Honey Bee Health Coalition brings together beekeepers, growers, researchers, government agencies, agribusinesses, conservation groups, manufacturers and brands, and other key partners to improve the health of honey bees and other pollinators. Its mission is to collaboratively implement solutions that will help to achieve a healthy population of honey bees while also supporting healthy populations of native and managed pollinators in the context of productive agricultural systems and thriving ecosystems. The Coalition is focusing on accelerating the collective impact of efforts to improve honey bee health in four key areas: forage and nutrition, hive management, crop pest management, and communications, outreach, and education.

Through its unique network of private and public sector members, the Coalition fosters new partnerships, leverages existing efforts and expertise, and promotes and implements new solutions. The Coalition brings its diverse resources to bear in promoting communication, coordination, collaboration, and investment to strategically and substantively improve honey bee health in North America. Learn more at honeybeehealthcoalition.org

The Honey Bee Health Coalition is a project of the Keystone Policy Center, a nationally recognized nonprofit working to find collaborative, actionable solutions to public policy challenges. Keystone operates under a statement of independence to serve all of its project participants. Learn more at keystone.org. ■

Front of Package Labelling

Submitted by Rod Scarlett

When Health Canada introduced its Healthy Eating Strategy for Canadians in 2016 it also proposed to introduce mandatory front-of-package labelling for foods that were high in saturated fats, sodium and sugars. The Canadian Honey Council recognized that this would adversely affect honey and honey sales

and submitted a background paper requesting honey be exempted from this type of labelling. In February of 2018, the new front-of-package labelling requirements were published in Canada Gazette and they exempted honey. The exact reference is as follows:

"The following prepackaged products would be fully exempt from the nutrition symbol requirements:

* Sweetening agents, as defined in subsection B.01.001(1), which include sugar, honey, syrups and molasses (these products are all or mostly all sugars and are used by consumers for sweetening purposes in different amounts depending on application, such as coffee/tea, baked goods, toppings, etc. Having a nutrition symbol for "high in sugars" on these products would be redundant)." ■



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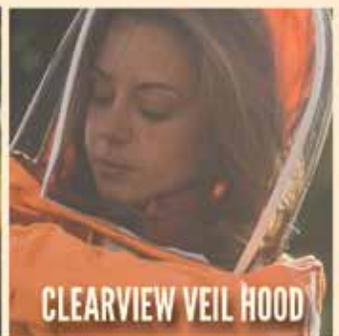
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On the road to Apimondia Montréal 2019!

Pierre Giovenazzo, President Apimondia Montréal 2019

The Canadian Honey Council is officially working with Professional conference organizer: AIM Group International (<https://www.aimgroupinternational.com/>). We are fortunate to work with a team of specialists who will manage most of the logistics of Apimondia Montreal 2019. The search for sponsors is underway and the rental of ApiExpo spaces / kiosks has started. We are very pleased to inform our beekeepers that many rentals have already been confirmed. There are still excellent ApiExpo spaces available and we strongly encourage Canadian beekeeping stakeholders to take advantage of this unique opportunity to promote their business or bee related products to a worldwide audience. Interested? Go to our website <http://www.apimondia2019.com/> under the "Sponsor" tab for additional information or write directly to Marguglio Marienza (m.marguglio@aimgroup.eu).

Our scientific program will be available soon and we anticipate accepting registrations and bookings for the hotels in May 2018! Follow the news on our facebook page <https://fr-ca.facebook.com/apimondia2019/>. Look for another Apimondia Montréal 2019 newsletter in next Hivelights. ■

How would you use a \$2500 grant to improve your local community?

Monsanto Fund launches 2018 Canada's Farmers Grow Communities Program



MONSANTO

Gerald W. Hayes Jr

Are you a farmer looking to do some good in your community? Or maybe you're a local not-for-profit or charitable organization that could use a bit of financial help. Whether farmer or charitable group, the 2018 Canada's Farmers Grow Communities program, sponsored by the Monsanto Fund, would like to lend a hand.

First introduced in 2012, The Canada's Farmers Grow Communities program gives farmers the opportunity to win a \$2500 grant for their favourite charitable or not-for-profit group in their community. The online application process – available at www.canadasfarmers.ca - is easy and it only takes a few minutes to complete an entry for the random draw.

"Farmers are a vital part of rural Canada and are very proud of their local communities," said Trish Jordan, public and industry affairs director with Monsanto Canada. "We wanted to give them the chance to be a community hero by helping those groups and projects that support rural residents and make their communities stronger."

A total of two, \$2500 grants will be awarded in each of 33 regions across the grain growing regions of northeastern BC (Peace River district), Alberta, Saskatchewan, Manitoba, Ontario, Quebec and the Maritime Provinces. Winners will be drawn randomly from all applications received between Jan. 1 and Sept. 30, 2018. Farmers may make one entry each, but multiple farmers can apply for the same charity or project thereby increasing the chance of being drawn.

Charities or community groups can also participate in the program by offering suggestions for farmers to consider. If you're looking for

ideas or not sure who needs help in your community, check out the Canada's Farmers Grow Communities website and "charity map", as well as the blog which profiles several previous winners.

The list of charities can include almost any non-profit organization based in rural Canada. Past winners have included 4H clubs; rural day-cares; libraries; volunteer fire departments; hospitals; schools; ag societies; senior centres; and other community facilities.

Complete contest rules, eligibility requirements and an online application form are available at www.canadasfarmers.ca. Winners will be selected by random draw on or about November 1, 2018 and notified by November 15, 2018.

About Monsanto Fund

The Monsanto Fund, the philanthropic arm of the Monsanto Company, is a not-for-profit organization dedicated to strengthening the communities where farmers and Monsanto Company employees live and work. Learn more at www.monsantofund.org.

About Monsanto Canada

Headquartered in Winnipeg, Manitoba, Monsanto Canada Inc. is part of the larger global Monsanto Company. Monsanto is committed to bringing a broad range of solutions to help nourish our growing world. We produce seeds for fruits, vegetables and key crops – such as corn, soybeans, canola and cotton – that help farmers have better harvests while using water and other important resources more efficiently. We work to find sustainable solutions for soil health, help farmers use data to improve farming practices and conserve natural resources, and provide crop protection products to minimize damage from pests and disease. Through programs and partnerships, we collaborate with farmers, researchers, nonprofit organizations, universities and others to help tackle some of the world's biggest challenges. To learn more about Monsanto, our commitments and our more than 20,000 dedicated employees please visit: www.monsanto.com or follow us on Twitter @MonsantoCda. ■



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Bee Murals as Healing Art

Andrew Bee

My mural 'Bees & Flowers' was designed to celebrate the connection between brave bees and beautiful flowers as they play together. We see a happy bee meet a flower and they dance, another thoughtful bee helps a crying cloud with an umbrella, a trio of bees sing with a trio of flowers, two bees fall in love, a family of royal bees pose for a portrait, and a group of giddy bees fly awkwardly through sky in search of flowers.

The original mural was created in a local park with help from the community and local families to help bring it to life. It has become a panoramic backdrop for the kid's playground and community garden and a fascination for the families in the neighborhood.

Mural making has always been a wonderful way for me to connect with my community and inspire kids. I've had a great time hearing all the stories of the families who have enjoyed playing around my murals and how my artwork has become a part of their lives. Kids have grown up and measured themselves as they grow against the mural. Visitors pose to get their pictures taken together. It really is wonderful to see how everyone enjoys it.

As part of the mural project I teach kids how to draw and paint the characters and landscapes. They learn about the mural making process and it encourages more little aspiring artists and mini mural makers. It

also brings kids into the intention and ideas of the mural design and connects them with the final mural. The kids share their thoughts of what we're creating and what they would like to see. Parents and grandparents get involved too, neighbors get to talk to each other, and the community has time be part of the creative transformation.



One of my first mural projects was at a children's hospital where I met kids facing very challenging chapters in their lives. Bringing joy and laughter to these kids through the mural making process moved me and I realized how the universal language of art speaks to kids as they find the strength to get healthier and visualize a life outside of the hospital.

My goal as an artist and creative cultural entrepreneur is to continue making my murals as 'healing art' in both children's hospitals and communities. To finding further funding from like-minded business sponsorship, grants, and other community and charitable partners. Murals themselves are a wonderful local legacy, they last a long time, seen by many, and appreciated by all, transforming a shared space into inspiring interactive artwork.

As a global community we all need to care of the next generation and the world they will live in. We all need to protect the bee population by planting pollinating flowers and supporting our local beekeepers and honey makers. Bees take care of us in more ways than we realize, and are vital to the food we eat, the ecosystem we live in, and the colorful communities we create together, and I should know after all because I'm one of them.

2018 Canadian Farmer-Rancher Pollinator Conservation Award



Antony John, Soiled Reputation Farm, NAPPC Canadian Farmer Award

We are delighted to once again invite nominations for the Canadian Farmer-Rancher Pollinator Conservation Award. This award recognizes an individual or family in the farm and ranch community in Canada who has contributed significantly to the protection of pollinators on their farm and/or in the farming community. This award is presented jointly by the Canadian Federation of Agriculture (CFA) and Pollinator Partnership (P2). <http://pollinator.org/awards>

In order for this call for nomi-

nations to reach far and wide to the many members of Canada's agricultural community, we would like to ask your organization to help us spread the word.

"Do you know a farmer or rancher who is making a difference for pollinators? The Canadian Federation of Agriculture and Pollinator Partnership are seeking nominations for the 2018 Canadian Farmer-Rancher Pollinator Conservation Award. Visit <http://pollinator.org/awards> for more information and help us celebrate the contributions of the agricultural community to pollinators."

On behalf of all pollinators, thank you for helping us recognize the invaluable contributions of Canada's farmers and ranchers to the protection of our country's bees, butterflies and beneficials!

Kathleen Law

Outreach Program Manager Pollinator Partnership

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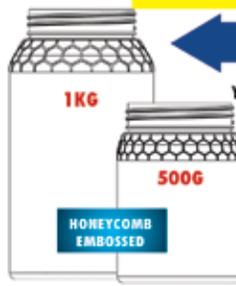
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Hive Rights

Help Wanted

Help Wanted: Shellbrook (SK)

Hannigan Honey Inc. Located at #9 Shell River Road, Shellbrook, SK. is now accepting applications for 8 Apiary Harvest Labourers (NOC 8431). These positions are available on a seasonal basis (45+ hrs/week), running from July to October 2018. Duties include honey extraction, cleaning extraction and storage equipment, filling containers, cleaning and maintaining hive equipment. Workers are required to be mentally and physically fit and must be able to work in the presence of bees. Wages start at \$10.96/per hour. Please send resume to Dave Philp, Box 367 Shellbrook, SK. S0J 2E0 or email hanniganhoney@sasktel.net.

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 Attn: Dennis Glennie Phone: 306-743-5469. Fax: 306-743-2817 Email: dennisglennie@sasktel.net

Help Wanted: Calgary, (AB)

Apiary worker

Salary: \$13.60 to \$15.00 / Hour for 35 to 60 Hours / Week

Vacancies: 2 - Terms of employment: Seasonal, Full time

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Job requirements:

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Experience - Experience an asset

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Apiary and Honey Harvesting Specific Skills, Detection and treatment of bee diseases, Honey farm, Honey bees, Harvesting honey. How to apply: email: beeboys@gmail.com

By fax: 403-217-6860

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

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 - davehanniganhoney@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 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. 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 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 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

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

Help Wanted: Rocanville (SK)

B STRONG APIARIES LTD. Contact: Brian Strong Email - 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/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. Contact Brian Strong @ 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
Attn: Dennis Glennie Phone: 306-743-5469. Fax: 306-743-2817
Email: 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 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 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

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

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

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. R0E 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

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

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

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 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
 - o 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 for fax 204-564-2568 or phone 204-937-7767

Help Wanted: Ardmore (AB)

An APIARY FOREPERSON (NOC 8252) for fulltime (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 full-time 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: tntapi@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 man-

ner; 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 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

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 c.warriner@sasktel.net

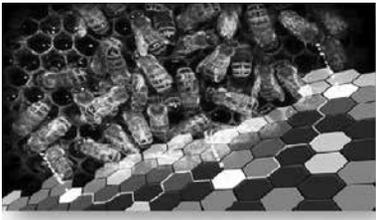
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Iotron provides a solution for today's bee colony problems. Iotron's treatment program provides Apiculturist's a cost effective and environmentally friendly solution for managing common beehive contaminants. Iotron's Electron Beam irradiation treatment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



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Em: info@oaknookhoney.com



www.oaknookhoney.com

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

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://mightymountainhoney.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 for more information.

FOR SALE:

PACIFIC QUEENS hybrid Italian queens from CHILE. Hygienic behavior and pollen production. Available JANUARY through MAY. apiculturary@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/ castanedastewart@honeyco.com or outlook.com / www.castanedastewart@honeyco.com or Lorne Newby at (250)506-0015/ dchegutter@gmail.com

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
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For Sale - Honey Bee Hives 5 Frame Nucs,

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Our nucs come in EZ Nuc 5 frame corrugated plastic nuc boxes. These EZ Nuc boxes are more durable than regular cardboard nuc boxes. Each nuc contains:

- A laying queen less than 1 year old
- 3 frames of bees and brood at varying stages
- 1 frame of feed

- 1 frame of empty comb for the queen to lay in

For new beekeepers every order includes an introductory letter, from Sun River Honey, explaining the first few days of your new hives. We have been keeping bees at Sun River Honey for over 20 years. Sun River Honey is independently inspected for disease by the SK Government. We hold a current Government of Saskatchewan Notice of Apiary Inspection. At Sun River Honey, we keep our Nosema levels low by testing our spore levels in house on a regular basis. We maintain Varroa levels well below economic thresholds to minimize the effects of compounding viral loads brought on by elevated Varroa levels. Nucs will be available for pick up late May/early June.

1-99 @ \$260/nuc 100+ @ \$250/nuc

Go to <http://www.sunriverhoney.com/product/nucs/> to order your nucs today! Quantities are limited so order early!

For sale: Extraction equipment

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For Sale: 500 - 3 Frame Nucs available end of May

3 frames of bee covered brood with a young wintered queen. Location: Mitchell, Manitoba Price: 180/nuc. Contact: Alex Reich (204)381-3866 or via email: alex_reich63@yahoo.ca

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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 for breeding information and updates.

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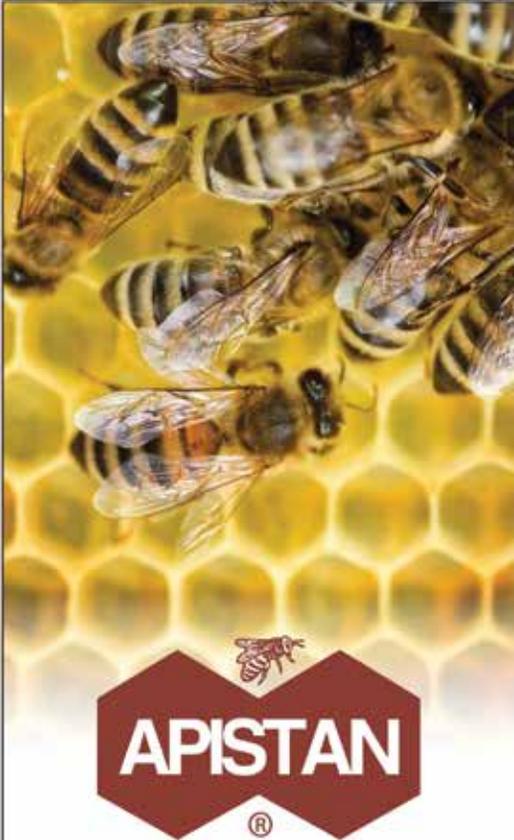
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