

The Bee Cause



Volume 6, Issue 5

September 2009

Points of Interest:

- Next general meeting is **7:30** Tuesday, September **8th** at the **River Heights Community Centre, 1370 Grosvenor Ave., Winnipeg.**

Speaker:

David Ostermann—Fall Management & Wintering Preparation

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Colony Collapse Disorder: A Descriptive Study

PLoS ONE | www.plosone.org

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Abstract

Background: Over the last two winters, there have been large-scale, unexplained losses of managed honey bee (*Apis mellifera* L.) colonies in the United States. In the absence of a known cause, this syndrome was named Colony Collapse Disorder (CCD) because the main trait was a rapid loss of adult worker bees. We initiated a descriptive epizootiological study in order to better characterize CCD and compare risk factor exposure between populations afflicted by and not afflicted by CCD.

Methods and Principal Findings: Of 61 quantified variables (including adult bee physiology, pathogen loads, and pesticide levels), no single measure emerged as a most-likely cause of CCD. Bees in CCD colonies had higher pathogen loads and were co-infected with a greater number of pathogens than control populations, suggesting either an increased exposure to pathogens or a reduced resistance of bees toward pathogens. Levels of the synthetic acaricide coumaphos (used by beekeepers to control the parasitic mite *Varroa destructor*) were higher in control colonies than CCD-affected colonies.

Conclusions/Significance: This is the first comprehensive survey of CCD-affected bee populations that suggests CCD involves an interaction between pathogens and other stress factors. We present evidence that this condition is contagious or the result of exposure to a common risk factor. Potentially important areas for future hypothesis-driven research, including the possible legacy effect of mite parasitism and the role of honey bee resistance to pesticides, are highlighted. Citation: vanEngelsdorp D, Evans JD, Saegerman C, Mullin C, Hauberge E, et al. (2009) Colony Collapse Disorder: A Descriptive Study. PLoS ONE 4(8): e6481. doi:10.1371/journal. one.0006481 Editor: Justin Brown, University of Georgia, United States of America Received March 6, 2009; Accepted June 29, 2009; Published August 3, 2009

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**“Participate”
Manitoba Honey Show
October 9, 10. & 11 2009
At the Winnipeg Forkes Market**

Registration by entry form or phone (David Ostermann at 945-3861) - deadline October 6.

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Minutes of the RRAA General Meeting May 12, 2009

7:45 PM: Charles Polcyn opened our final meeting of the spring with 15 members and guests in attendance. Charles remarked that beekeepers are finding a large number of mites underneath drone brood cappings, on bees and bees with deformed wings are already showing up this spring. He urged everyone to be diligent in inspecting their own hives as any large mite population in spring usually leads to hive failure later on.

April minutes: Moved by Margaret Smith and Seconded by George Chwist to accept the minutes as published in the *Bee Cause*. Carried

Correspondence: None

MBA Report: Jim Campbell reported on CHC's progress on extending the use of Apivar.

- June Field Day information has been published in the *Bee Cause* for May.
- The MBA is working with MASC on a crop insurance program for honey and also for honey bee colonies.
- CBC is interested in doing something on honey bees in the City. Charles and Ron reviewed some of the interesting differences between the Winnipeg and Vancouver bylaws regarding the keeping of colonies within these Cities. In the city of Winnipeg, only the University of Manitoba, Hospitals, Museums, businesses such as Bee Maid and public schools operating under the Manitoba Schools Act are allowed to keep colonies. Vancouver allows and even encourages their citizens to keep one or two colonies provided their property is large enough and there is also a hedge or fence high enough to prevent flight paths from running into pedestrian traffic and to keep them flying high enough over neighbouring properties.
- A comment was made that pesticides such as Malathion have destroyed most of the native bee populations as well as other beneficial insects in urban settings.
- A member thought that we might want to review, with the City of Winnipeg, the present "Exotic Animal" Bylaw and also the widespread spraying of Malathion.
- Group Liability Insurance is available to Red River Apiarists Assoc. members. This insurance liability level is 2 million with a 2,500 deductible. Good to be protected if you have beekeeping tours and run courses at your premises or you transport colonies of bees.
- Benadryl, given to a person with an allergic reaction to a sting, has been known to work. One should also have a single injection hypodermic needle (obtained by prescription) available.

With the business portion of the meeting concluded we paused for coffee and some cookies before Rasoul Bahreini gave us a report on the continuing Manitoba Queen Breeding Project. This project has been ongoing for seven years and many of the carefully selected colonies are now exhibiting grooming behaviour and a higher tolerance to varroa mites.

Loonie Draw: A beautiful jar of honey from Bogotá, Columbia was won by Margaret Smith. A second container, a squeeze bottle of honey from Thailand, was won by Ron Rudiak. A package of dried mangoes from the Philippines was won by Zelda Wright and the "build your own" new frame was won by Nelson Szwaluk. Thanks to everyone who participated and Charles who donated the fine prizes. The draw total was \$10.00.

Ron Rudiak, secretary - RRAA

Red River Apiarists' Association - Executive Meeting Salisbury Restaurant on Pembina Hwy. - August 11, 2009

In Attendance: Charles Polcyn, Rhéal Lafrenière, John Speer, Ken Rows, John Russell, Jim Campbell, Brian Smith and Ron Rudiak. Charles opened the meeting at 5:00 PM.

Topics for the September 8 Meeting:

- 1) Fall Management & Wintering Preparation – David Ostermann
- 2) Discuss the Manitoba Beekeepers' Honey Show which will take place on October 9, 10 and 11 at The Forks. The theme this year is "Pollination and the Foods We Eat". A display of food from the market will be used to emphasize the importance of pollination to food production..
- 3) Circulate the Honey Show Regulations in the newsletter and on the RRAA web site and discuss at our September meeting. A sign-up sheet will be on hand to keep track of honey show volunteers.

Honey Show:

A new classification "Bee-Ginner" will be added for those entering the honey competition for the first time. A honey beverage section will also be made available this year that will feature mead entries. A photography section will also be part of the honey show.

The honey show will again include an action display of extracting honey and a static display of beekeeping equipment. Additional signs and pictures can be included from the 2008 Beekeeping On the Prairies display at the Mennonite Heritage Museum. John and Jim will discuss the purchase of ribbons for the various competitions.

Bee Cause: The deadline for newsletter submissions to Ken Rows is August 29th (and October 2).

Apiculture Symposium: The symposium on honey bee - virus interactions will take place Wednesday, Oct. 21 in the Fort Garry Hotel. The cost is \$35 per person.

Meeting Room: John Speer will contact the River Heights Community Center to arrange space for our meetings. John reported that we have 69 signed up members (out of a possible 90).

October Meeting: Charles will be able to give a presentation on his journey to the Philippines.

November Meeting: Gadget Night, nominations and a social evening with food trays and coffee at the RHCC.

Ron Rudiak – RRAA Secretary

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Honey Show Jim Campbell, MBA rep.

The plans for the 2009 Manitoba Honey Show call for the introduction of a number of new measures aimed at increasing producer participation, and stimulating consumer attention and interaction.

The 2009 Honey Show and Competition are planned for the weekend of October 9-11 at The Forks Market, Winnipeg. The theme "**Pollination and the Foods We Eat**" will link consumers concern for the plight of the bees with the foods on their table. Signage, along with colourful photographs, plus a display of Foods and Seeds will be used to stimulate consumer attention and interaction.

In the Competition area two new features are planned. For the novice, or new beekeeper, a "**BEE-GINNER**" section has been added to create an easy entry point for first timers in the competition. Simplified judging criteria are to apply. Another section to stimulate visitor appeal and producer interest will be the new "**Honey Beverage**" section. This area will focus on homemade Mead entries. Watch for colourful displays here. In addition, after a number of years absence, the "**Photography**" section returns! This area has been redesigned to focus on the three themes - Honey Bee Pollination, Other Bees and Insects, plus, Beekeeping in Manitoba.

Other popular interactive attractions continued for 2009 include, Cooking Demonstrations, Honey Tasting, Vendor Displays, Extracting Demonstrations and the always-interesting Live Bees. Why not plan to stop by and join in the action!

Photo Competition Invitation

All photography novices and experts are invited to send their favourite selections to the Honey Show in 2009. A new photography category is being added. Have a look at the topics to determine where you can enter!

Detailed information on Competition Classes, Regulations, Entry Forms, and Judging Criteria, can be found on RRAA web site www.beekeepingmanitoba.com and MBA web site at www.manitobabee.org

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BRONSON ANNOUNCES NATION'S FIRST REGULATION BANNING ADDITIVES IN HONEY 13 July 2009

TALLAHASSEE -- Florida Agriculture and Consumer Services Commissioner Charles H. Bronson today announced that his department has instituted the first regulation in the nation - and perhaps the world - prohibiting any additives, chemicals or adulterants in honey that is produced, processed or sold in Florida. The regulation, which takes effect July 14, provides the first-ever "Standard of Identity" for honey.

"We want to assure consumers that the product that they are buy-

ing is pure," Bronson said. "Too often in the past, honey has been cut with water or sugar, and sometimes even contaminated with insecticides or antibiotics. In the future, when you're paying for honey in this state, pure honey is what you will get."

State Rep. Alan Hays, of Umatilla, has been a major advocate of the new regulation, which is supported by Florida's honey industry, and joined Bronson at a press conference here today to unveil the new rule.

"I am pleased that the Florida Department of Agriculture and Consumer Services is leading the way for all America in establishing this standard by which all honey may now be measured," Hays said. "Commissioner Bronson and the leaders of the honey industry - beekeepers and honey processors - are to be applauded for their leadership in protecting not only the health of Floridians but also in protecting this industry which is so vital to the production of food products for all mankind."

Under terms of the new regulation, honey containing anything other than the "natural food product resulting from the harvest of nectar by honeybees" is considered an adulterated or mislabelled product. Such products are subject to a "stop sale" order in which a manufacturer, processor or merchant would be served with an order prohibiting the product's sale. Repeat offenders would face fines of up to \$500 per violation.

Florida is the fourth-leading honey producing state in the country with cash receipts to beekeepers of more than \$15 million in 2008 and an industry that has an economic impact estimated at \$40 million a year. It employs more than 500 Floridians.

As a result of a flood of adulterated honey from overseas into Florida in 2006, a petition was submitted to the U.S. Food and Drug Administration (FDA) later that year by five major honey producers and processors, asking the federal agency to establish a U.S. standard of identity for honey. Two years later, the FDA responded that due to other pressing matters, it would be unable to review the petition.

At that point, the industry asked Bronson's department if it would consider developing a standard of identity for the product, and today's announcement is the culmination of that effort.

Bronson noted that despite efforts in various quarters, international governing bodies have to date been unable to establish an international definition of or standard of identity for honey, making it likely that Florida's regulation governing honey may be the first of its kind anywhere.

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MBA directors meet Ag Minister by Jim Campbell, MBA rep.

Several of the MBA directors met recently with Hon Rosann Wowchuk to review the state of the beekeeping industry and seek help combating varroa.

Bryan Ash (Gilbert Plains), Bruce Podolsky (Ethlebert), Marc Nichol (McGregor) and Jim Campbell (Stonewall), representing Manitoba's Honey Producers, met with Hon Wowchuck on 4 August 2009. In opening comments MBA representatives thanked the Minister for various programs supported by MAFRI. In expressing appreciation, the convenience of the Bee Lab was noted, along with the co-operation and support

of David and Rhéal, plus the synergy having Extension staff adjacent to the U of M Entomology staff on the University grounds.

MBA requested assistance from the minister to support their request for honey production insurance and foreign workers for the agriculture community. In presenting the Cost Recovery area, where MBA pays a portion of the Bee Inspection Program, the minister advised she would like to help farmers, yet budgets would be tight. It looks like the \$12,000 will remain. In closing comments however, the minister agreed to look into the possibility of providing additional research funding to combat the adverse impact of varroa on over winter losses.

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Presidents Comments: September-09

The summer of 2009 will be long remembered as having the smallest number of sunshine days on record. Not only have the businesses at the beaches and cottage country suffered, but the honey production also suffered as the number of flying days/hours was severely reduced. Scale hives recorded successive days of weight loss as the nectar flow was reduced, temperatures were low and the bee populations were large.

It is near the end of August, the rain is coming down again and the bees are not flying for another day. This seems to be the pattern of the summer of 2009, rainy days, cool nights and the shortage of Sunshine Days as we march on towards the fall. The extraction of honey is on a different timetable this summer for most beekeepers, starting in August rather than in July as is normal. The quality of the honey produced is good, but I think that not many beekeepers will reach the traditional average weight production for the province of Manitoba this summer. BUT we have to move on, as the weather is always an uncontrollable factor in our lives and in agriculture.

The MANITOBA HONEY SHOW dates have been changed at the request of

"The FORKS" to take place this year on OCTOBER 9th to OCTOBER 11th, which is the Thanksgiving weekend for us. The theme this year for the Honey Show is "Pollination and the Foods We Eat" which is a topic that all of us should consider important. We plan to have a major display of all the foods that depend upon insect pollination as one of the features of this year's Honey Show, along with the live bee display, bee equipment to examine, cooking with honey demonstrations, bee posters, honey tasting and mini-extraction workshops.

Thus beekeepers have more time to prepare their Honey Show entries, and also make plans to volunteer for an Assistance Shift on that weekend. There will be a "Sign Up for a Shift" sheet circulated at the first RRAA meeting of the fall on September 8th at the usual meeting place at River Heights Community Club on Grosvenor Avenue in Winnipeg.

This is an important meeting for Honey Show information, Honey Jar Entry pickup opportunity, and just as important is the discussion topic of "Preparing your Hives" for the cool



Editor's Note by Ken Rowes

It seems to me to have been a so-so year and I for one have had less of a crop with the bees trying to make up lost time due to the cool and wet days of spring and summer. With the wisdom of Ted Scheuneman I managed to produce 35 queen cells which dwindled to 16 with my tests and learning program. That said with a split or two I managed to go from 4 to 23.

Its September now and those nucs are doing Ok. Problems always arise like not having your hive tool on ya when ya need it! And so it goes with equipment, ya just have to be thinking in advance.

Its time to be thinking fall management and use the last of the warm weather to achieve treatments being sure to follow recommendations.

Its also time to consider an entry or two in the Manitoba Honey show. The added value here is for you to show case your honey and by products for that is the added joy in beekeeping. You will find it dose not take much more time and you certainly will savour in the bee bug passion.

Some copies of the rules and entry forms will be available at the September 8th meeting

Over the past 44 years I have enjoyed the beekeeping fellowship. It is what you make it. It is also the warmth and wisdom in those relationships that keep you glued like propolis. An you know propolis is healthy and so goes these relationships. These past 2 years I have felt the loss of dear friends who have touched me where my heart is –Beekeeping: Cameron Jay (79 yrs) April 25 08, John Polusny (85 yrs) January 09 and now Bruce Fallis (62 yrs) 20 July 09. And so I say, "It's the life behind the words that makes the difference and the love you leave behind that provides the everlasting comfort".

1. FOR SALE: Jabsco 15050-0675, food grade 316 stainless, pedestal pump (standard 2" Sanitary Threaded Ports). The 15050 is rated at 50 gpm (water) and is also used to pump foods like honey, jam, relish and peanut butter. All bearings, O-rings, wear plates, shaft seal and impeller have been replaced with new Jabsco parts to provide new performance. New price is \$2520(US). Will sell for \$1250. Call Ron Rudiak (204)326-3763 or e-mail man-beekr@mts.net

2. For Sale: 30 Frame Maxant Extractor. please call **Javad Niazi At 885-0576 or javadni-azi@yahoo.ca**

The Bee Cause is the official publication of the Red River Apiarists' Association for distribution to its members and their colleagues in the beekeeping industry. It is published eight times a year on a monthly basis except December and the summer months of June, July, and August when membership meetings do not occur.

Articles can be best submitted in word documents as email attachments. Though they may be edited for spelling and basic grammar, no changes will be made to their contents, message and opinions. They are those of their originator and not of the Red River Apiarist Association.

Deadline for any submission to this newsletter is the second Saturday preceding the membership meeting to allow for publishing and mailing delays. Regular membership meetings are normally scheduled 7:30 PM on the second Tuesday of every month at the River Heights Community Centre located at 1370 Grosvenor Avenue in Winnipeg except the months as noted above.

The Red River Apiarists' Association, formed in 1963, represents the beekeepers of the Red River Valley and environs in southern Manitoba. The association provides a forum for the promotion of sound beekeeping practices through education, networking opportunities, meetings, field days, workshops, presentations by local apicultural experts, as well as the dissemination of this monthly newsletter.

We are on the web!
www.beekeepingmanitoba.com

CLASSIFIED

- **Wanted:** S.S Bottling Tanks Single wall or double wall with water jacket, good condition or repairable. Also needed—Belt Barrel Heater for drums: **call Brian Rich 204 739-5481**

Classifieds are for your use to post ads to buy or sell!

In Memoriam - Bruce William Fallis

A friend came by the other day and asked how I was doing. I told him right off I was fine and after work was going to check my bees south of the south Perimeter on HWY 59. He asked to join me. I had a spare suite and so began a friendship both at work in the Federal Fisheries and with the passion endeavour of my youth. That was November 1977. He had been into beekeeping for sometime and now with another avid beekeeping friend. Although over the years we discussed the roles of federal fisheries on whales, aquatic mammals and fish in relation to their ecology and anthropomorphic impacts, beekeeping was the glue to our relationship.

We were members of the Red River Apiarist's Association both holding roles in its executive at times. I began beekeeping in 1965 and helped with the RRAA taking membership in 1966. Bruce began that winter of 1977 and



took out membership (listed as Fallis, Bruce W. - 15 Oberlin Road, Winnipeg - R3T 3G9 - 474-1702) in the cold January of 1978 (membership 1978-1982). That led him to accept 2nd VP in 1979, then Secretary in 1980. Our jobs took us away at times but not enough that we could not handle several colonies although we drifted away from the RRAA. Bruce re-joined for 2003-2006 inclusive when his health forced him to stop.

Bruce perfected the art of granulating honey with help from a modified refrigerator. This helped in Honey Shows both in Winnipeg and at the Royal Agricultural Winter Fair (RAWF) in Toronto. As part of the Winnipeg International Flower Show at Polo Park, 1979 and 1980 Shows Bruce entered several categories. As well Bruce did well at RAWF where from 1978 to 1982 he captured several awards.

Memorable ribbons ; first place in Comb Honey 1978, and Beeswax in 1982, plus notably capturing the Canadian Honey Council trophy for Best Exhibit of Granulated Honey in 1981. After skipping a few competitions, Bruce captured the RAWF Reserve Grand Champion ribbon for Liquid Honey in 2000, and followed in 2001 with another first place ribbon. Throughout several years of competing, his prize entries also captured many 2nd and 3rd place ribbons.

A friend e-mailed me the other day and mentioned Bruce had past away the 20th July 2009. He didn't ask how I was doing but I e-mailed him right off and told him I was blue.

Bruce passed away at the age of 62 after a brief stay at Shuswap Lake General Hospital (Salmon Arm, BC). Bruce had recently retired from DFO and moved to Victoria B.C this summer. Unfortunately, he also was dealing with some serious health issues during the last few years.

Bruce was a graduate of the Biology Program at the University of Toronto. In his 2nd year at U of T, Bruce started his association with Dr. Harold H. Harvey when he worked as a summer limnology/fish bio student, travelling up to Baffin Island to scout out potential sites for a U of T's long term High Arctic biological research studies. U of T's final choice, of course, was on Cornwallis Island at Char Lake. So back in about 1966-67, Bruce was the first among us who got exposure to the Arctic. He also did summer work with research staff conducting pioneering research on the effect of acid rain on freshwater lakes in northwest Ontario.

Upon graduation in 1969, Bruce started his MSc at U of T with Dr. Harvey, working on the biology of a stocked population of Kokanee salmon that became self-sustaining in an Ontario lake. His thesis title was:

The ecology of an exotic population of *Kokanee, Oncorhynchus nerka* (Walbaum) in Boulter Lake, Ontario / by Bruce William Fallis

After completing his MSc. Bruce put in a stint with what was then known as the OWRC (Ontario Water Resources Commission). OWRC eventually became the Ontario Ministry of the Environment. In 1973, Bruce was hired by the Resource Management Group (Operations Directorate), DFO, Winnipeg and worked in the Aquatic Toxic Studies (ATS) group.

While with ATS, Bruce became our in-house specialist on heavy metal mining impacts in the DFO Central and Arctic Region. His work with ATS also included field time in northern Manitoba and the high Arctic. ATS was absorbed by Resource Impact Assessment in 1978 when all staff and resources focused on the near shore Beaufort Sea - Tuktoyaktuk Peninsula in response to aggressive near shore hydrocarbon exploration activities, especially by Dome Petroleum. By 1983, he went back full time to dealing with habitat issues associated with mining operations as well as decommissioning of old mines (e.g. Ontario's Elliot Lake region). His career was halted in 2004 when he took leave for health reasons. Unfortunately, he was unable to return to work and retired in 2007. Bruce received special recognition from DFO in December, 2008 for his years of dedicated work with DFO.

With a lifelong fascination and an extensive knowledge of the natural environment, he worked for many years as a fisheries biologist. Bruce was an excellent poet, an avid outdoorsman, and an award-winning beekeeper. In the last few years of his life, he developed Parkinson's Disease and valiantly struggled with this adversity. Thoughtful, generous, and loving as a husband and father, he will be greatly missed by his wife of 34 years, Wendy (nee Dickson); his children, Glenn (Amber) and Leandra; brothers Alex (Wanda), and Hugh (Marilyn); Uncle Allan (Hazel); and many cousins, nieces and nephews. He is predeceased by his father, Dr. A. Murray Fallis and mother, Ada Ruth Fallis (nee Bostock). We will remember him fondly for his humility and enduring positive attitude, his patient teachings, gentle strength and gracious nature, and his playful, clever sense of humour. Donations in memory of Bruce can be made to the Parkinson's Society of Canada (www.parkinson.ca).

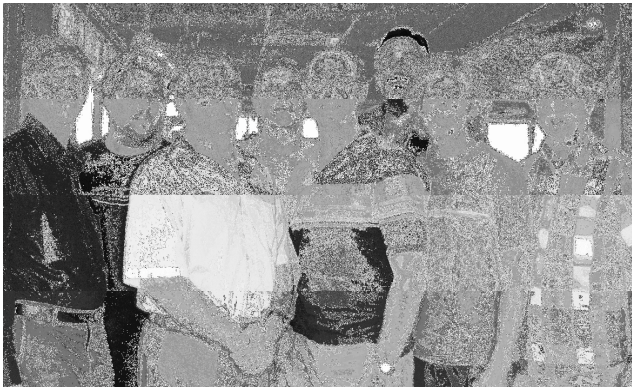
We will remember Bruce as a person who was always there to help and a person of utmost integrity. We will certainly miss him. Our condolences go out to his wife Wendy, daughter Leandra and son Glen.

I feel the warmth in his friendship and the up-lift in his words:

"May the sun warm the soil in your garden and the marvels of nature bound!"
"Memories and good times to cherish".
Bruce W. Fallis

"It's the life behind the words that makes the difference and the love that's left behind when your gone that provides the ever lasting comfort."

Ken D. Rowes



Here is your 2009 Executive:
Ron Rudiak, John Badiuk, Brian Smith, Ken Rowes,
Jim Campbell, Rhéal Lafrenière, John Speer, Charles Polcyn

fall weather and also winter—which all may arrive earlier this year. I know this sounds like a lack of optimism on my part, but the pattern of the summer of 2009 may continue. Chasing a Honey Flow in September may produce a few more pounds of honey, but at the risk of not preparing your bees for the onset of cool/cold weather and paying a high price next spring with more dead out hives than normal.

Which way will honey prices go this fall is still a guessing game, but the trend should be for a higher price in the barrel than last year. The recommended doorstep price for us of \$2.50/ lb for the 2009 crop is still in effect, as all of us work too hard to sell our high quality honey for any less. And you may have noticed that all ready the major grocery stores have increased the shelf price on most brands of honey no matter its country of origin.

Several beekeepers in the urban area around Winnipeg I have

met this summer have mentioned that the mosquito larva control program used by the city sometimes uses Dursban as one of its chemicals of choice for the spray of ditches and local standing water areas. Dursban is one of the more dangerous to human health chemicals, is a nerve poison, and is also very deadly to honey bees as it has a long residue life. It is highly toxic to all levels of life, including humans Many states in the USA ban its use completely .

Here in Winnipeg, this particular chemical is not allowed to be used in residential areas, but is frequently applied around the outskirts of the city in water areas by the mosquito control crews. If you have some large scale sudden honeybee die offs in your local hives, be aware that it may be a result of the mosquito control programs that spray mainly in the daylight hours whatever the weather. Don't hesitate to ask about what chemicals are being applied in your area, as the control crews are able to vary their chemical choices upon official requests of the land-owner.

On a personal note, my own email address of charlespolcyn@yahoo.com was hacked from my account by a clever thief, and all of my email addresses were collected. As a result, many people on my address list were contacted to send money on my behalf as I had been robbed in England and needed assistance. This is entirely false, do not respond or open that email. If you receive any request of that type in your email, delete it immediately as someone is using my name to attempt to steal money from you. My new email address is charles_polcyn@ymail.com, which you can use in any correspondence to me.

I am looking forward to meeting many of you at the meeting in September, and hope that we all will have many positive stories to share of " the summer of 2009 ".

Yours in Beekeeping- Charles Polcyn RRAA President

Red River Apiarists' Association Winnipeg, Manitoba 2009 MEMBERSHIP APPLICATION

I apply for membership in the Red River Apiarists' Association. Membership includes one-year subscription to the newsletter "The Bee Cause" (8 issues)- \$25.00.

Name _____ Tel. _____
Address _____
City _____ Prov. _____ Postal Code _____
E-mail address _____
Signature _____

New Member [] Renewal [] Student [] [free 1st year]

Other. Please specify. _____

This completed form may be brought to the meeting or mailed with your cheque to :

John Speer, RRAA Treasurer
Box 16, Group 555. Winnipeg, Manitoba R2C 2Z2.

Make cheques payable to Red River Apiarists' Association.