



Background Information From An Independent Perspective

### Neonicotinoid Insecticides Hurting Bees Is A MYTH

There is NO EVIDENCE TO SUGGEST A LINK between Neonicotinoid Insecticides and Bee Colony Collapse Disorder.

Neonicotinoid Insecticides DO NOT HARM BEES.

Bee-Keepers are HARMING BEES, and NOT Neonicotinoid Insecticides.

Neonicotinoid Insecticides, like Imidacloprid, are widely used for the control of insect pests in lawns, gardens, ornamental plants, and agriculture.

Since 2006, Anti-Pesticide Activists and Bee-Keepers have ALLEGED that there are so-called links and causes between the Neonicotinoid Insecticides like Imidacloprid and Bee Colony Collapse Disorder.

Researchers have NOT been able to identify a single cause of Bee Colony Collapse Disorder.

### Myth-BUSTING

### The Myth of Bees & Pesticides (continued)

The weight of the scientific evidence clearly shows that Neonicotinoid Insecticides DO NOT AFFECT BEES.

The exposure of bees to Neonicotinoid Insecticides is at very low levels, far too low to cause harmful effects.

Neonicotinoid Insecticides WILL CAUSE NO HARM TO BEES since treated plant tissues contain only TINY amounts of ingredient, bees are not feeding on the plants, and pollen contains barely detectable levels.

If some Anti-Pesticide Activists and Bee-Keepers were not so SCIENTIFICAL-LY ILLITERATE, they would know that scientific research shows that, as reported through EPA's and Health Canada's VAST TOXICOLOGY DATABASE, NO HARM WILL OCCUR TO BEES.

Bee Colony Collapse Disorder is THE FAULT OF BEE-KEEPERS and their mismanagement practices.

Bee-Keepers are responsible, and NOT Neonicotinoid Insecticides.

In their usual method of arriving at SCIENTIFICALLY ILLITERATE CONCLU-SIONS, the Anti-Pesticide Activists and Bee-Keepers have somehow CON-COCTED THE IMAGINARY DANGER that Neonicotinoid Insecticides was the reason for Bee Colony Collapse Disorder.

Of course, this is an Anti-Pesticide Lunatic MYTH!

Anti-Pesticide Activists and Bee-Keepers are THE LEAST QUALIFIED TO PROVIDE ANY ADVICE concerning Neonicotinoid Insecticides.

Anti-Pesticide Activists and Bee-Keepers ALLEGE, with NO SCIENTIFIC PROOF, that Neonicotinoid Insecticides somehow cause Bee Colony Collapse Disorder.

This is an Anti-Pesticide Lunatic MYTH!

When used properly, Neonicotinoid Insecticides CAUSE NO HARM, and DO NOT HURT BEES.



# Chemo-Phobic Anti-Pesticide **Groups Are** At It Again

Paul K. Driessen

Selected And Adapted Excerpts



Paul Driessen is Senior Policy Advisor for the Committee For A Constructive Tomorrow and Congress Of Racial Equality, and author of the book Eco-Imperialism - Green Power - Black Death.

### Chemo-Phobic Anti-Pesticide Groups Are At It Again

### Neonicotinoid Insecticides

Neonicotinoid Insecticides (a.k.a. Neonic Pesticides) are derived from naturally-occurring nicotine plant compounds and have been hailed as a LOW-TOXICITY PEST TREATMENT.

Neonicotinoid Insecticides are often applied to seeds or on soils during planting, become part of the plants' physiology, and WORK BY GIVING TREATED PLANTS INTERNAL DEFENSES AGAINST INVASIVE PESTS.

Claims that Neonicotinoid Insecticides could kill bees appear plausible at first blush, but laboratory studies have shown that high doses can affect bees IN MINOR WAYS.

Studies have shown that Neonicotinoid Insecticides are INNOCENT.

Neonicotinoid Insecticides are TOXIC ONLY TO INSECTS THAT FEED ON TREATED PLANTS, which dramatically reduces the need to spray entire fields with other, less safe pesticides.

Neonicotinoid Insecticides WILL CAUSE NO HARM TO BEES since treated plant tissues contain only TINY amounts of ingredient, bees are not feeding on the plants, and pollen contains barely detectable levels.

The use of Neonicotinoid Insecticides also CURTAILS RISKS TO FARM WORKERS AND BENEFICIAL INSECTS.

### Bee Colony Collapse Disorder

Bee Colony Collapse Disorder is a phenomenon that poses a SERIOUS THREAT to bees, crop pollination, flowers, and food crops in many areas.

Bee Colony Collapse Disorder and other bee die-offs are NOT NEW.

The Real Goal Of Chemo-Phobic Anti-Pesticide Groups Is To Raise More Money And Acquire More Power

What we now call Bee Colony Collapse Disorder was FIRST REPORTED IN 1869, and many outbreaks since then have turned scientists into Sherlock Holmes detectives, seeking explanations and solutions to this mysterious and scary-sounding problem.

Fungi, parasitic mites, and other possible suspects, have been implicated, but none has yet been arrested or convicted.

This UNCERTAINTY created A PERFECT PETRI DISH FOR CHEMO-PHOBIC ANTI-PESTICIDE GROUPS.

### The REAL Agendas Of Anti-Pesticide Groups

CHEMO-PHOBIC ANTI-PESTICIDE GROUPS are at it again.

They have a bee in their bonnet.

This time they're ATTACKING WIDELY USED AND SAFE NEW INSECTICIDES, Neonicotinoid Insecticides, but their assertions and real agendas are nothing

THEIR REAL GOAL IS TO RAISE MORE MONEY AND ACQUIRE MORE POWER.

As Saul Alinsky taught — they have picked their new target, personalized and polarized it, and are attacking it relentlessly.

Saul Alinsky was the author of the book Rules For Radicals - A Pragmatic Primer For Realistic Radicals. See later segment for more details. ]

### Attacks Against DDT Insecticide

RADICAL ENVIRONMENTALISM and CHEMO-PHOBIC ANTI-PESTICIDE GROUPS, like Environmental Defense Fund, rose to ascendancy with their opposition to pesticides, specifically DDT.

Charles Wurster was a scientist with Environmental Defense Fund [ A U.S. ANTI-PESTICIDE AND ENVIRONMENTAL-TERRORIST ORGANIZATION 1.

According to Wurster in 1969 in Seattle Times newspaper —

If the environmentalists win on DDT, they will achieve a level of authority they have never had before.

Using Rachel Carson's OFTEN INACCURATE book Silent Spring to drive a nasty campaign, CHEMO-PHOBIC ANTI-PESTICIDE GROUPS succeeded in getting the Environmental Protection Agency to PROHIBIT U.S. production and use of DDT in 1972, leading to a de facto GLOBAL PROHIBITION EVEN TO COMBAT MALARIA DISEASE.

Trumpeting ILLUSORY OR MANUFACTURED DANGERS of DDT, and CAL-LOUSLY INDIFFERENT to the DEATHS OF MILLIONS from the horrible disease of Malaria Disease, CHEMO-PHOBIC ANTI-PESTICIDE GROUPS still BATTLE AGAINST THE USE OF DDT, even to spray only the inside walls of primitive homes to keep most mosquitoes out, and keep those that do enter from infecting people.

### Attacks Against Neonicotinoid Insecticides

Attacking a new class of insecticides for SPURIOUS REASONS is no big deal for CHEMO-PHOBIC ANTI-PESTICIDE GROUPS, even if the chemicals are SAFE AND VITAL for modern agriculture.

The target now is a widely used new class of safe pesticides — Neonicotinoid Insecticides (a.k.a. Neonic Pesticides) — that Beyond Pesticides, Pesticide Action Network, Sierra Club, and other « socially responsible » groups, are blaming for Bee Colony Collapse Disorder in various countries.

CHEMO-PHOBIC ANTI-PESTICIDE GROUPS are pressuring the United States and other countries to PROHIBIT Neonicotinoid Insecticides, by blaming them for Bee Colony Collapse Disorder.

Their FEAR-MONGERING ASSERTIONS are PURE CONJECTURE, but that hasn't stopped activists — or news outlets — from promoting frightening stories implicating Neonicotinoid Insecticides.

Unfortunately, Bee-Keepers and CHEMO-PHOBIC ANTI-PESTICIDE GROUPS are THE LEAST QUALIFIED TO PROVIDE ANY ADVICE about pest control products.

Nevertheless, several Bee-Keepers and CHEMO-PHOBIC ANTI-PESTICIDE GROUPS have sued the Environmental Protection Agency (US EPA), demanding that EPA immediately PROHIBIT all Neonicotinoid Insecticides.

The lawsuit is not merely ill-advised.

By blaming Neonicotinoid Insecticides, Bee-Keepers and CHEMO-PHOBIC ANTI-PESTICIDE GROUPS are ignoring — and deflecting attention from the ACTUAL THREATS TO BEES. (See later segments.)

### Studies Of Neonicotinoid Insecticides — University Of Guelph

Dr. Cynthia Scott-Dupree is Professor Of Environmental Biology at University Of Guelph.

She is the LEADING EXPERT IN THE FIELD OF POLLINATION ACTIVITIES OF HONEYBEES.

According to Dr. Scott-Dupree, doses of Neonicotinoid Insecticides that bees receive in lab studies ...

The difference is akin to an 81 mg aspirin tablet versus a full bottle of 200 mg tablets, or light rainfall on a bee versus throwing it into a bucket of wa-

Dr. Scott-Dupree helped coordinate a Canadian field study that compared hives exposed to Neonicotinoid Insecticides to those that weren't exposed.

Dr. Scott-Dupree FOUND NO DIFFERENCE IN COLONY HEALTH between the two groups.

### Dr. Cynthia Scott-Dupree

Dr. Cynthia Scott-Dupree is the LEADING EXPERT IN THE FIELD OF POLLINATION ACTIVITIES OF HONEYBEES.

Dr. Cynthia Scott-Dupree received her Master Of Pest Management (1983) and her Ph.D. (1986) from the Department of Biological Sciences at Simon Fraser University.



Dr. Cynthia Scott-Dupree's Master Of Pest Management research dealt with the use of pheromones for the monitoring and control of moth pests in apicultural situations.

Her Ph.D. research, with Dr. Mark Winston, focused on the pollination activities of honeybees and native bee pollinators in orchard systems in the Okanagan Valley of British Columbia.

Dr. Scott-Dupree became a faculty member at University Of Guelph in 1986, and is involved in teaching and research.

Her research interests include integrated management of insect crops pests using environmentally compatible control methods, resistance management, and the impact of agro-ecosystems on non-target organisms, including beneficial insects such as honey bees, bumble bees, native bees and natural enemies of insect pests.

Dr. Scott-Dupree is also interested in alternative control methods for honeybee disease and pests.

Born and raised in Western Canada, Dr. Scott-Dupree became acquainted with apiculture and agriculture through family beekeeping and farming oper-

She is keenly aware of the importance of apiculture and agriculture to the Canada economy and endeavors to relay this to others through her research, teaching and extension activities.

Dr. Scott-Dupree is actively involved with the Entomological Societies of Ontario and Canada and is Past President of the Canadian Association Of Professional Apiculturists.

### Studies Of Neonicotinoid Insecticides — Britain's Department For Environment, Food, And Rural Affairs

Other studies by Britain's Department For Environment, Food, And Rural Affairs ( DEFRA ) reached the SAME CONCLUSION as University Of Guelph and Dr. Cynthia Scott-Dupree.

The DEFRA evaluation of studies purporting to link Neonicotinoid Insecticides to bee harm found that THE LAB WORK WAS CONDUCTED UNDER EXTREME SCENARIOS WHICH WOULD NOT OCCUR UNDER REAL-WORLD CONDI-TIONS.

According to Britain's Department For Environment, Food, And Rural Affairs (DEFRA) -

The RISK of Neonicotinoid Insecticides seed treatments to bee populations in the field is LOW.

That's hardly surprising.

Plant tissues contain only TINY amounts of Neonicotinoid Insecticides, bees are not feeding on the plants, and POLLEN CONTAINS BARELY DETECTA-BLE LEVELS.

### No One Really Knows Why Bees Aren't Thriving

### The Actual Threats To Bees

Right now, NO ONE REALLY KNOWS WHY BEES AREN'T THRIVING.

Studies have shown that Neonicotinoid Insecticides are INNOCENT.

Multiple studies point to several factors that explain why bees are struggling, especially Varroa Mites. (See next segment.)

### ACTUAL THREATS TO BEES include —

- bacterial infections like foulbrood
- bee habitat loss
- bees developing resistance to anti-biotics
- exposure to commonly used organophosphates
- long-term bee inbreeding and resultant lack of genetic diversity
- multiple bee viruses and parasites
- Varroa Mites

CHEMO-PHOBIC ANTI-PESTICIDE GROUPS are NOT asking for investigation into these problems — which calls THEIR SCIENCE, SINCERITY, AND IN-TEGRITY INTO QUESTION.

The CHEMO-PHOBIC ANTI-PESTICIDE GROUPS' track records on DDT and Malaria Disease underscores this *modus operandi*.

The CHEMO-PHOBIC ANTI-PESTICIDE GROUPS get money, publicity, power, and phony solutions — and end up hurting the very things (bees and people ) they profess to care so much about.

### Varroa Mites Actual Threat To Bees

The aptly named parasitic mite VARROA DESTRUCTOR threatens honeybees directly, while spreading and activating previously dormant or harmless bee VIRUSES, which then become dangerous.

The Varroa Mites are not easy to eradicate.

John Miller is President of California State Bee-Keepers Association.

According to Miller —

You can imagine how hard it is to kill a bug on a bug.

And sometimes the cure is worse than the disease.

Treating Varroa Mites requires miticides that can be toxic to bees at levels high enough to be effective.

Well-intentioned apiarists trying to combat Varroa Mites can accidentally overdose hives with miticides.

VARROA-FREE AUSTRALIA is likewise one of the world's prime users of Neonicotinoid Insecticides, and its bee colonies are among the planet's healthi-

By contrast, bee populations have been severely impacted by Varroa Mites in areas of Switzerland where Neonicotinoid Insecticides are NOT USED.

### Prohibitions Will Harm Farmers, Consumers, And Environmental Values

### Conclusions

Reflexive PROHIBITIONS against Neonicotinoid Insecticides WILL HARM FARMERS whose crop yields will fall, WILL HARM CONSUMERS whose food bills will rise and food safety will decline, and WILL HARM ENVIRONMENTAL VALUES as older more toxic insecticides will have to be reintroduced to protect crops.

The detective work needs to continue, until real answers are found.

The prudent, precautionary approach would be to avoid eliminating vital, low-toxicity Neonicotinoid Insecticides, while continuing to study their potential effects on bees, and other potential causes of die-offs and colony collapses.

Various Neonicotinoid Insecticides are widely used in Canada to protect its vast canola fields, and CANADIAN BEE POPULATIONS ARE THRIVING, notes science writer Jon Entine.

Right now we don't have an equally low substitute for Neonicotinoid Insecti-

Sound, replicable science — not pressure group politics — must underpin all pesticide policies, or the unintended consequences will be serious, farreaching, and potentially devastating to agriculture and food supplies.

We need to let science do its job, not jump to conclusions or short-circuit the

This time - as always - we need answers, not scapegoats.

### Saul Alinsky And His Rules For Radicals

If your organization is SMALLER IN NUMBERS, then conceal the members in the dark but RAISE A DIN AND CLAMOR THAT WILL MAKE THE LISTENER BELIEVE THAT YOUR ORGANIZATION NUMBERS MANY MORE THAN IT DOES

Saul Alinsky was the author of the book Rules For Radicals - A Pragmatic Primer For Realistic Radicals.

The scope of influence for Rules For Radicals was a far-reaching one as it was a compilation of the SUBVERSIVE TACTICS of Saul Alinsky.

It has been a direct influence for Anti-Pesticide and Environmental-Terrorist Organizations.

The tactics proposed by Alinsky were based metaphorically on the eyes, ears, and nose of the opponent.

If you have organized a VAST MASS-BASED PEOPLE'S ORGANIZATION, you can PARADE IT VISIBLY BEFORE YOUR OPPONENT AND OPENLY SHOW YOUR POWER.

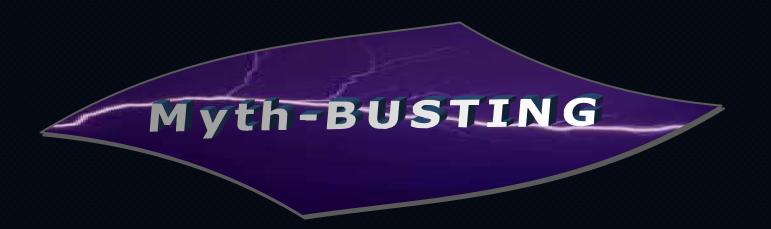
If your organization is SMALLER IN NUMBERS, then appeal to the « ears » conceal the members in the dark but RAISE A DIN AND CLAMOR THAT WILL MAKE THE LISTENER BELIEVE THAT YOUR ORGANIZATION NUMBERS MANY MORE THAN IT DOES.

Lastly, if your organization is TOO TINY EVEN FOR NOISE, STINK UP THE PLACE.

### Saul Alinsky And His Rules For Radicals (continued)

### Saul Alinsky And His Rules For Radicals

A good tactic is one your people enjoy.
A tactic that drags on too long becomes a drag.
If you push a negative hard enough, it will push through and become a positive.
Keep the pressure on. Never let up.
Make the enemy live up to its own book of rules.
Never go outside the expertise of your people.
Pick the target, freeze it, personalize it, and polarize it.
Power is not only what you have, but what the enemy thinks you have.
Ridicule is man's most potent weapon.
The major premise for tactics is the development of operations that will maintain a constant pressure upon the opposition.
The price of a successful attack is a constructive alternative.
The threat is usually more terrifying than the thing itself.
Whenever possible, go outside the expertise of the enemy.



## Collapse Of Bee Colonies Is Latest Target For **Anti-Pesticide Groups**

Paul K. Driessen

Investors.com

Selected And Adapted Excerpts



Paul Driessen is Senior Policy Advisor for the Committee For A Constructive Tomorrow and Congress Of Racial Equality, and author of the book Eco-Imperialism - Green Power - Black Death.

### Collapse Of Bee Colonies Is Latest Target For Anti-Pesticide Groups

Bee-Keeping is big business, and everyone loves honey and foods made possible by pollination.

But Bee Colony Collapse Disorder threatens bees and crop pollination in many areas.

Bee Colony Collapse Disorder and other bee die-offs are NOTHING NEW.

What we now call Bee Colony Collapse Disorder was first reported in 1869, and many outbreaks since then have sent scientists scurrying for explanations and solutions.

Fungi, Varroa Mites and other possible suspects have been implicated, but NO DEFINITIVE ANSWER HAS YET BEEN FOUND.

That has created a perfect environment for Anti-Pesticide Groups.

Anti-Pesticide Groups want the United States and European Union to PRO-HIBIT a widely used class of safe Neonicotinoid Insecticides, by blaming them for Bee Colony Collapse Disorder in various countries.

Their scary assertions are PURE CONJECTURE, but that has not stopped Anti-Pesticide Groups — or news outlets — from PROMOTING SCARY STO-RIES implicating Neonicotinoid Insecticides.

Derived from naturally-occurring nicotine plant compounds, Neonicotinoid Insecticides ( a.k.a. Neonic Pesticides ) have been hailed as a LOW-TOXICITY PEST TREATMENT.

Neonicotinoid Insecticides are often applied to seeds or on soils during planting, become part of the plants' physiology, and work by giving treated plants internal defenses against invading pests.

That means Neonicotinoid Insecticides are TOXIC ONLY TO INSECTS THAT FEED ON CROPS — dramatically reducing the need to spray entire fields with other pesticides, and curtailing risks to farm workers and beneficial insects.

### Collapse Of Bee Colonies Is Latest Target For Anti-Pesticide Groups (continued)

Claims that Neonicotinoid Insecticides could kill bees appear plausible at first blush, and lab studies have shown that high doses can affect bees.

However, the doses that bees receive in lab studies « are far above what a realistic field dose exposure would be » says Dr. Cynthia Scott-Dupree, Environmental Biology Professor at University of Guelph in Ontario, Canada.

Dr. Scott-Dupree helped coordinate a Canadian field study that compared hives exposed to Neonicotinoid Insecticides to those that weren't exposed.

Dr. Scott-Dupree FOUND NO DIFFERENCE in colony health between the two groups.

Another study by Britain's Department For Environment, Food, And Rural Affairs ( DEFRA ) REACHED THE SAME CONCLUSION.

A DEFRA evaluation of studies purporting to link Neonicotinoid Insecticides to bee harm found THE LAB WORK WAS CONDUCTED UNDER EXTREME SCENARIOS THAT WOULDN'T OCCUR UNDER REAL-WORLD CONDITIONS.

DEFRA concluded ...

Risk to bee populations from neonicotinoids, as they are currently used, is LOW.

That's hardly surprising.

Neonicotinoid Insecticides WILL CAUSE NO HARM TO BEES since treated plant tissues contain only TINY amounts of ingredient, bees are not feeding on the plants, and pollen contains barely detectable levels.

Various Neonicotinoid Insecticides are widely used in Canada to protect its vast canola fields, and CANADIAN BEE POPULATIONS ARE THRIVING, notes science writer Jon Entine.

# Anti-Pesticide Lunatics Are WRONG About Bees

FORCE OF NATURE | THE WHOLE TRUTH FROM AN INDEPENDENT PERSPECTIVE from National Organization Responding Against HUJE that seek to harm the Green (NORAHG)



### **Exposing Misconceptions About** The Imaginary Threat Of Pest Control Products

Facts About Bee Health And Pesticides

### Agriculture Protects Pollinators

POLLINATORS in Canada, such as honeybees and wildbees, pollinate many fruits, vegetables, field crops such as canola, and flower gardens.

They are an essential part of a robust agricultural system.

Honeybee health can be affected by a number of different factors, including parasites ( such as the Varroa Mite ), disease, and other stress factors ( such as habitat loss, poor nutrition, climate change, and chemical exposure ).

The AGRICULTURE INDUSTRY HAS A VESTED INTEREST IN PROTECTING POLLINATORS and is committed to thoroughly researching and protecting bee health.

Facts About Bee Health And Pesticides

### What Is Causing Elevated Over-Wintering Honeybee Losses In Canada?

Over the past four or five years, OVER-WINTERING HONEYBEE LOSSES HAVE BEEN HIGHER THAN NORMAL ( in the range of 20 to 40 per cent nationally, compared to the more typical 15 per cent ).

Losses of bee colonies have been VARIABLE among the Canadian provinces.



RESEARCHERS HAVE NOT IDENTIFIED A SIN-GLE CAUSE OF THESE LOSSES.

Recent scientific research points toward a combination of PARASITIC MITES (specifically the Varroa Mite ) and PATHOGENS ( such as Nosema and viral diseases ) as MAIN FACTORS.



Other possible factors include ...

... lack of genetic diversity, climate change, pest control products, and stress-inducers such as colony transport, poor nutrition, weather, and starvation.

Nonetheless, early Canadian figures from 2011/2012 indicate a SIGNIFI-CANT IMPROVEMENT IN OVER-WINTERING LOSSES, likely due to the mild winter and better disease control.

Facts About Bee Health And Pesticides

### What Is Bee Colony Collapse Disorder (BCCD)?

Numerous bee-keeping experts believe that Bee Colony Collapse Disorder ( BCCD ) symptoms have not been reported in Canada.

Bee Colony Collapse Disorder is a term used to describe a very specific set of symptoms, characterized by the SUDDEN DISAPPEARANCE OF WORKER BEES from a colony, leaving behind an apparently healthy gueen and brood.

RESEARCHERS HAVE NOT BEEN ABLE TO IDENTIFY A SINGLE CAUSE OF BEE COLONY COLLAPSE DISORDER.



Most experts agree that, in recent years, pollinator health decline is the result of a COMBINATION OF FACTORS, including parasitic mites and diseases.

Many researchers suspect that INVASIVE PARASITIC MITES have WEAK-ENED BEES' DEFENSES, making them more susceptible to diseases or other environmental factors.

Bee Colony Collapse Disorder is a separate issue from over-wintering losses and acute poisonings.

While some over-wintering loss is normal, the levels experienced by some professional Bee-Keepers in various parts of the world over the past seven years have raised concerns.

Facts About Bee Health And Pesticides

How Are Pest Control Products Regulated To Ensure They Do Not Harm Bees?

All pest control products go through a RIGOROUS TESTING PROCESS to ensure THEY CAN BE USED WITHOUT CAUSING HARM TO HUMANS OR THE ENVIRONMENT.

This process includes more than 200 SEPARATE STUDIES that test a range of health and environmental impacts, including effects on bees.

The results of these studies help determine the instructions for use that appear on the product label.

evaluated to ensure they meet the latest safety standards.



Facts About Bee Health And Pesticides

### Is There Any Connection Between Neonicotinoid Insecticides And Long-Term Honeybee Losses In Canada?

There is NO EVIDENCE TO SUGGEST A LINK between Neonicotinoid Insecticides and long-term honeybee losses in Canada.

There is NO GEOGRAPHICAL CORRELATION between long-term bee losses and insecticide use.

Although some Neonicotinoid Insecticides are toxic to bees upon direct contact ( as are many insecticides ), they are used in a way that MINIMIZES ANY DIRECT EXPOSURE TO BEES.

Under normal field use, THE EXPOSURE TO BEES IS AT VERY LOW LEVELS, FAR TOO LOW TO CAUSE HARMFUL EFFECTS.

Independent, long-term, controlled field tests have repeatedly shown NO EFFECTS on bee mortality, weight gain, worker longevity, brood development, honey yield, and over-winter survival relative to bees in areas where treated seed was not used.

Many of these studies have been published in peer-reviewed journals and presented at international conferences.

For example, a recent Canadian study by G. Christopher Cutler and Cynthia D. Scott-Dupree was published in the Journal of Economic Entomology, 100(3): pages 765-772 (2007).



Facts About Bee Health And Pesticides

### What About Recent Studies That Claim Neonicotinoid Insecticides Are A Principle Cause Of Pollinator Decline?

The weight of the scientific evidence clearly shows that Neonicotinoid Insecticides DO NOT AFFECT LONG-TERM COLONY HEALTH.

A few recent studies have claimed some impact on bees, but a careful evaluation of the research shows SIGNIFICANT ERRORS were made in the experimental design, or INCORRECT CONCLUSIONS were drawn from the da-

Unfortunately, these studies have received wide media attention.

( See next segment. )

Facts About Bee Health And Pesticides

### Pesticides Not Yet Proven Guilty Of Causing Honeybee Declines

and Environment Agency ...

THE IMPACT OF CROP PESTICIDES ON HONEYBEE COLONIES IS UN-LIKELY TO CAUSE COLONY COLLAPSE.

More research is now needed to predict the impact of widely-used agricultural insecticides, called Neonicotinoid Insecticides, on honeybee popula-



Scientists from the University of Exeter and Food and Environment Agency highlight FLAWS in PREVIOUS RESEARCH ( published in Science, April 2012 ) that predicted that Neonicotinoid Insecticides could cause Bee Colony Collapse Disorder.

Neonicotinoid Insecticides are among the most widely-used agricultural insecticides and honeybees ingest residues of the pesticides as they gather nectar and pollen from treated plants.

The previous research has been cited by scientists, environmentalists, and policy-makers as so-called evidence of the future impact of Neonicotinoid Insecticides on honevbees.

It is likely that the research was instrumental in the French government's recent decision to ban the use of thiamethoxam, a neonicotinoid that is the active ingredient of Cruiser OSR, a pest control product produced by the Swiss company Syngenta.

However, the new paper argues that the calculations made in PREVIOUS RESEARCH were FLAWED because they failed to reflect the rate at which honeybee colonies recover from losing individuals.

The PREVIOUS RESEARCH, led by French scientist Mikaël Henry, showed that the death rate of bees increased when they drank nectar laced with a Neonicotinoid Insecticide, thiamethoxam.

The University of Exeter is a public research university located in South West

In the most recent UK Research Assessment Exercise (2008), nearly 90 per cent of Exeter's research was rated as being at internationally recognised levels.



17 per cent of the submitted research was rated 4 ( « world-leading » ). 16 of the 31 subjects evaluated were ranked in the top 10, with 27 in the top

Facts About Bee Health And Pesticides

### Can Agriculture And Bees Really Co-Exist?

Bees and pest control products are VERY MUCH COMPLEMENTARY — both are essential to the success of agriculture.

More than one-third of the world's food production comes from crops that depend on pollination.

Modern crop protection products are critical tools that farmers use to protect their crops from potentially devastating pests.

In fact, WITHOUT PEST CONTROL PRODUCTS, the world would LOSE AT LEAST 40 PER CENT OF ITS FOOD SUPPLY.

Our industry is committed to the developing products that allow Canadian farmers to grow food in an environmentally sustainable manner.

For example, SEED TREATMENT INSECTICIDES evolved as a way to protect seeds and crops while also MINIMIZING POTENTIAL EXPOSURES of nontarget insects such as bees.

Indeed, these modern seed-applied insecticides have been used for a decade WITH ALMOST NO INCIDENCES OF NEGATIVE IMPACTS ON BEES.

Only small quantities of the insecticide are needed to coat the seed, which reduces the need to spray insecticides to control insects.



In fact, in contrast to a traditional spray treatment, where 100 per cent of a field is treated, LESS THAN 1 PER CENT OF THE FIELD IS TREATED WHEN A MODERN SEED TREATMENT IS USED.

This helps to reduce the exposure of pollinators and other beneficial insects ( as well as human and environmental exposures ) throughout the growing

Furthermore, in Canada, the climate is such that most years TREATED SEED IS PLANTED DURING A PERIOD WHEN BEES ARE NOT ACTIVELY FORAG-

### Facts About Bee Health And Pesticides

### What Role Do Farmers Play In Ensuring Bees Are Protected From Insecticides?

Farmers understand the tremendous importance of pollinators to the success of modern agriculture.

During planting, farmers can limit dust when pouring seed into the planter; properly dispose of empty seeds bags; and follow manufacturer recommen-

Growers plant only during proper weather conditions, they take precautions when planting near flowering crops and they control flowering weeds in their fields prior to planting.

CropLife Canada is the trade association representing manufacturers, developers and distributors of pest control products, including those designed specifically for urban use.



# Neonicotinoid Insecticides CAUSE NO HARM, And DO NOT HURT BEES

FORCE OF NATURE | THE WHOLE TRUTH FROM AN INDEPENDENT PERSPECTIVE from National Organization Responding Against HUJE that seek to harm the Green Space Industry (NORAHG)



We are living in the 9|11 Era of Anti Pesticide and Environmental Terrorism where at least ONE SUBVERSIVE ACT OF TERROR is Perpetrated EVERY SINGLE DAY by enviro lunatics.

We are living in the DARK AGE OF ANTI PESTICIDE TERRORISM where sound science is trumped by FAKE SCIENTISTS, JUNK SCIENCE and UNVERIFIABLE SECRET EVIDENCE through FABRICATION, INNUENDO, and INTERNET RUMOUR — scientific research PROVES that pest control products CAUSE NO HARM and can be USED SAFELY.

NORAHG is the National Organization Responding Against HUJE that seek to harm the Green space industry.

NORAHG morally represents the VAST SILENT MAJORITY of people associated with turf and ornamental plant maintenance who are OPPOSED to Anti Pesticide PROHIBITION and the CLO-SURE of green spaces under the RIDICULOUS PRETEXT of somehow « saving » the environment

NORAHG is a NATIONAL NON PROFIT NON PARTISAN organization that does not accept money from corporations or governments or trade associations, and represents NO VESTED INTERESTS WHATSOEVER.

NORAHG is dedicated to reporting the work of RESPECTED and HIGHLY RATED EXPERTS who promote ENVIRONMENTAL REALISM and PESTICIDE TRUTHS.

Anti Pesticide HUJE are enviro lunatics and lawn haters who particularly DESPISE the golf industry
— they are Hateful Underhanded Jokes as Environmentalists who have been WRONG FOR OVER
50 YEARS

There is NO RECOURSE but LITIGATION against Anti Pesticide HUJE.

Another RECOURSE is to SEEK the CANCELLATION of GOVERNMENT GRANTS and REVO-CATION of the TAX EXEMPT STATUS of Anti Pesticide Organizations.

HUJE should Get OFF Our grASS, and they should Roast In Hell

NORAHG manages the Library of Force Of Nature Reports and References, which is a VAST AR-CHIVE of REPORTS, MEDIA REFERENCES, AUDIO CLIPS, and VIDEOS on ALL Anti Pesticide Terrorist Acts of Subversion.

The purpose of this ARCHIVE is to provide information that will lead to a SUCCESSFUL LITIGATION AGAINST Anti-Pesticide Organizations.

All names, statements, activities, and affiliations have been ARCHIVED for the intention of eventual CRIMINAL CHARGES.

When CRIMINAL CHARGES for FRAUD and CONSPIRACY are laid, legal experts say that the ARCHIVE is sufficient to lead to a SUCCESSFUL PROSECUTION!

NORAHG also produces FORCE OF NATURE, reports that present THE WHOLE TRUTH FROM AN INDEPENDENT PERSPECTIVE about environmental issues, including anti pesticide terrorism.

FORCE OF NATURE is a series of reports destined for the green space industry, the environmental terrorist movement, governments, and the media, nationwide across Canada, the United States, and overseas

FORCE OF NATURE is committed to SOUND SCIENCE, as well as ground breaking original reporting that informs, entertains, and creates real change.

FORCE OF NATURE was launched for CONTINUOUS transmission on the Internet on January 1st 2009 — however, the VERY FIRST Stand-Alone FORCE OF NATURE Report was issued on September 19th. 2008.

By early 2009, the reports were released no more than five times per week, but by August 25th, 2009, FORCE OF NATURE was produced on a DAILY basis.

On March 15th, 2010, Uncle Adolph independently launched the Blog-Site called The Pesticide Truths for the posting of information right-off-the-press

By May 27th, 2010, Uncle Adolph expanded Pesticide Truths to a SECOND Blog-Site, and independently acquired the rights to archive the ENTIRE FORCE OF NATURE Library of Reports.

By mid-December 2010, ENTIRE FORCE OF NATURE Library of Reports was FULLY SUMMA-

