



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)

RESEARCHERS HAVE NOT IDENTIFIED A SINGLE CAUSE OF OVER-WINTERING HONEY BEE LOSSES.

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

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

There is NO EVIDENCE TO SUGGEST A LINK between NEONICOTINOID INSECTICIDES and long-term honey bee losses.

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

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

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.

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, such as SEED TREATMENT.

SEED TREATMENT INSECTICIDES have been used for a decade WITH ALMOST NO INCIDENCES OF NEGATIVE IMPACTS ON BEES by MINIMIZING POTENTIAL EXPOSURES of non-target insects such as bees.

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.

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





# Myth-BUSTING

## Facts About Honey Bee Health and Pesticides

August 2012

CropLife Canada

Media Release

Selected and Adapted Excerpts

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





# Facts About Honey Bee Health and Pesticides

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

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Numerous beekeeping 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 queen 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 **WEAKENED 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 beekeepers in various parts of the world over the past seven years have raised concerns.



**Researchers  
have not  
been able  
to identify  
a single cause  
of bee colony  
collapse  
disorder**

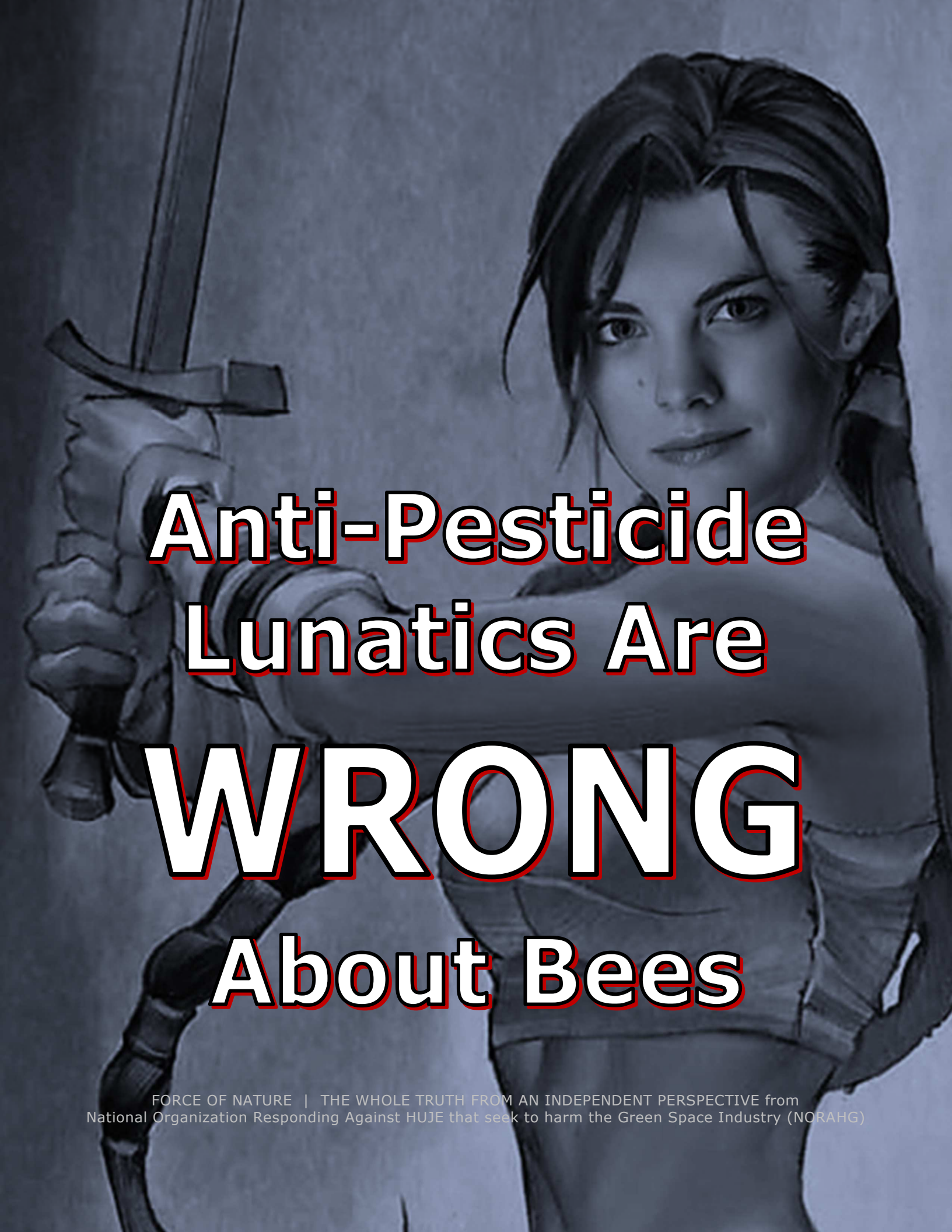
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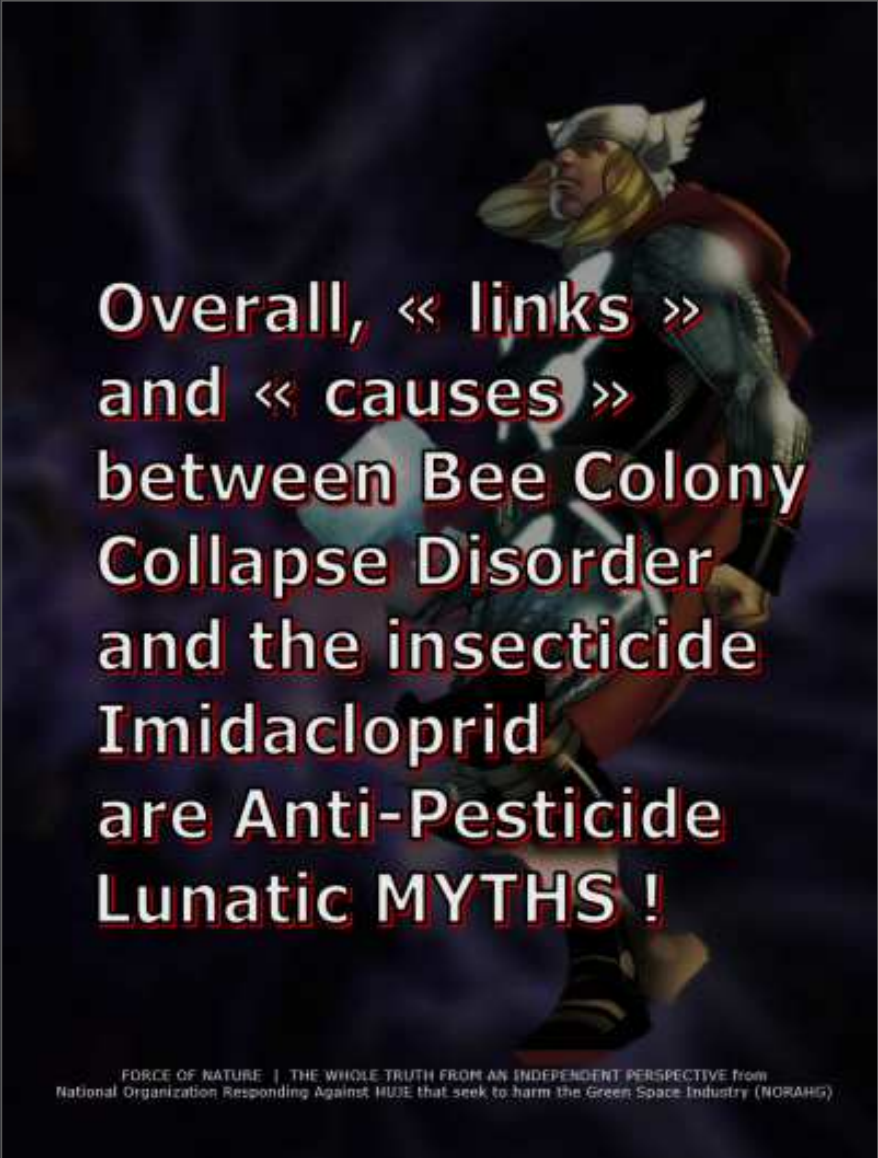






# Anti-Pesticide Lunatics Are **WRONG** About Bees

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**Overall, « links »  
and « causes »  
between Bee Colony  
Collapse Disorder  
and the insecticide  
Imidacloprid  
are Anti-Pesticide  
Lunatic MYTHS !**

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## Bee Colony Collapse Disorder Allegedly Caused by Imidacloprid

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Anti-Pesticide Lunatics are THE LEAST QUALIFIED TO PROVIDE ANY ADVICE concerning pest control products.

It is a MYTH that pest control products somehow cause Bee Colony Collapse Disorder.

Anti-Pesticide Lunatics also ALLEGE, with NO SCIENTIFIC PROOF, that pest control products somehow cause cancer.

Background Information from an Independent Perspective

# Bee MYTHS



## Exposing Misconceptions About the Imaginary Threat of Pest Control Products

### Bee Colony Collapse Disorder Allegedly Caused by Imidacloprid ( continued )

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Since 2006, Anti-Pesticide Lunatics have ALLEGED that there is a « *link* » between the insecticide imidacloprid and the so-called disappearance of honey bees.

Imidacloprid is classified as a neonicotinoid insecticide, and is widely used for the control of insect pests in lawns, gardens, ornamental plants, and agriculture.

In their usual method of arriving at ignorant conclusions, the lunatics have somehow concocted the story that imidacloprid and other neonicotinoid insecticides were the reason for a phenomenon called Bee Colony Collapse Disorder ( BCCD ).

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

### Insecticides Threaten Useful Organisms ( ?!?! )

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Insecticides are necessary to control serious pests of turf, such as White Grubs.

Anti-Pesticide Lunatics argue that the use of such products threatens useful organisms, such as the birds and the bees.

The following is an example of a comment made about the Golf Industry in British Columbia ( B.C. ) —

*« At least one of those B.C. cases of Bee Colony Collapse Disorder is here on Vancouver Island, where new golf courses spring up by the month, it seems. They are all heavy users of imidacloprid and other insect[icides] and herbicides [ ... ] it is no wonder Vancouver Island's bee, butterfly, native frog and turtle populations are being decimated. »*

This is WRONG !

# Bee MYTHS



## Winter — The True Cause of Bee Colony Collapse Disorder

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In 2010, America's dwindling honey bee population was badly hit by the BITTER WINTER, the harshest in decades, with experts warning that WINTER LOSSES could be as high as 50 per cent.

Beekeepers normally lose around 10 per cent of their colonies DURING THE WINTER-TIME, when food stores are low and bees are confined to the hive.

But preliminary estimates indicated that in 2010, LOSSES were estimated between 30 to 50 per cent, said David Mendes, President of the American Beekeeping Federation.

The DECLINE in the global honey bee population, which was first observed in the United States in 2006, has showed no signs of abating, in a phenomenon that has baffled researchers and beekeepers.

Data from the Department of Agriculture show an ANNUAL DROP of 29 per cent drop in bee colonies, compared with 36 per cent decline in 2008 and 32 per cent in 2007.

## Summary of Theoretical Causes of Bee Colony Collapse Disorder

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Since 2006, Bee Colony Collapse Disorder is a phenomenon in which commercial honey bees abruptly disappear, which is worrisome because many agricultural crops are pollinated by bees.

Anti-Pesticide Lunatics have concocted all sorts of « *causes* » for this phenomenon, hoping to collect PROFITS from CASH DONATIONS, ILLICIT BUSINESSES, UNQUALIFIED EMPLOYMENT, and GRANTS, quite often WITHOUT PAYING A SINGLE PENNY IN TAXES.



# Bee MYTHS



Theoretical Cause

## Climate Change

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Big Surprise !

Anti-Pesticide Lunatics believe so-called Global Warming is a « *cause* » of Bee Colony Collapse Disorder.

This is an Anti-Pesticide Lunatic MYTH !

However, there is no doubt that normal weather extremes are a significant cause.

For example, approximately ten per cent of bee colonies are annihilated during the winter, especially when food reserves are low and bees are confined to the hive.

Theoretical Cause

## Electromagnetic Radiation

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Anti-Pesticide Lunatics have concocted the theory that cell phones and cell towers are « *causes* » for Bee Colony Collapse Disorder.

This is an Anti-Pesticide Lunatic MYTH !

Theoretical Cause

## Genetically Modified Crops

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Anti-Pesticide Lunatics have created the story that the pollen of genetically modified crops is toxic to bees.

This is also an Anti-Pesticide Lunatic MYTH !

# Bee MYTHS



## Theoretical Cause

### Beekeeping Practices

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The beekeepers themselves may actually be the principal cause of Bee Colony Collapse Disorder.

Commercial honey bee mismanagement is likely a contributing factor that requires closer review.

A similar situation occurred in the 1990s in Eastern Canada, when Maple Syrup Producers blamed so-called Acid Rain for the decline of their mis-managed trees.

## Theoretical Cause

### Lack of Genetic Biodiversity

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Nearly all Queen Bees, and subsequently all honey bees, descend from one of several hundred Breeder Queens.

This limited genetic pool may degrade the quality of Queen Bees used to start new hives, and result in honey bees that are significantly more susceptible to pests.

## Theoretical Cause

### Malnutrition

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Wild honey bees forage on the diversity of flowers in their habitat, enjoying a variety of pollen and nectar sources.

By comparison, commercial honey bees are limited to foraging specific crops, such as blueberries, or cherries.

Honey bees fed on single crops, or limited varieties of plants, may suffer nutritional deficiencies that create stress on their immune systems.

# Bee MYTHS



Theoretical Cause

## Migratory Beekeeping

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Commercial beekeepers rent their hives to farmers, earning more from pollination services than they could ever make from honey production alone.

Hives are stacked on the back of tractor-trailers, covered, and driven thousands of miles.

For honey bees, orientation to their hive is vital to life, and being relocated creates stress.

Additionally, moving hives around the country potentially spreads pests as honey bees intermingle in the fields.

Theoretical Cause

## Parasites and Pathogens

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Known honey bee pests, such as American Foulbrood and Tracheal Mites, do not lead to Colony Collapse Disorder on their own, but it is suspected that they may make bees more susceptible to it.

Beekeepers fear Varroa Mites the most, because they transmit viruses in addition to the direct damage they inflict as a parasite.

The products used to control Varroa Mites further compromise the health of honey bees.

The answer to the Bee Colony Collapse Disorder puzzle might lie in the discovery of a new, unidentified pest or pathogen.

For example, researchers discovered a new species of *Nosema* in 2006.

*Nosema ceranae* has been found in the digestive tracts of some honey bees displaying symptoms of Bee Colony Collapse Disorder.



# Bee MYTHS



Theoretical Cause

## Toxins in the Environment

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Honey bee exposure to toxins in the environment warrants research since they may be a cause of Bee Colony Collapse Disorder.

Water sources may be unsafe for bees since they are treated to control other insects.

Household or industrial chemicals, through contact or inhalation, might impact foraging bees.

The possibilities for toxins in the environment make pinpointing a definitive cause difficult, but this theory requires attention by scientists.

Theoretical Cause

## Pest Control Products

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Anti-Pesticide Lunatics have alleged that there are « *links* » between the insecticide imidacloprid, and other neonicotinoid insecticides, and the so-called disappearance of commercial honey bees.

Since imidacloprid is widely used for the control of insect pests in lawns, gardens, ornamental plants, and agriculture, the lunatics have somehow concocted the story that imidacloprid and other neonicotinoid insecticides were the reason for the phenomenon of Bee Colony Collapse Disorder.

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



# Bee MYTHS



## The History of Imidacloprid

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What's the story on imidacloprid ?

Bayer has manufactured this systemic insecticide in Europe since 1991.

In 1995, the active ingredient imidacloprid, under the trade name Admire was granted temporary registration in Canada for the control of the insecticide-resistant Colorado Potato Beetle in Eastern Canada.

In 1999, imidacloprid was first registered in Ontario and Quebec under the trade name Merit for the control of European Chafer and Japanese Beetle larvae in turf.

In 2000, Nu-Gro Corporation was appointed by Bayer as the exclusive supplier of Merit.

In 2004, the registration of Merit was extended to British Columbia and other parts of Canada.

Today, imidacloprid is one of the best-selling insecticides in the world.

In 2007, the world-wide sales of imidacloprid, and other successors in its class, were reported at a staggering 8.6 BILLION DOLLARS.

Anti-Pesticide Lunatics have alleged that there are « *links* » between imidacloprid, and other neonicotinoid insecticides, and the so-called disappearance of commercial honey bees.

Since imidacloprid is widely used for the control of insect pests in lawns, gardens, ornamental plants, and agriculture, Anti-Pesticide Lunatics have concocted the story that imidacloprid and other neonicotinoid insecticides were somehow the reason for a phenomenon called Bee Colony Collapse Disorder.

Since 2006, Bee Colony Collapse Disorder is a phenomenon in which commercial honey bees abruptly disappear, which is worrisome because bees pollinate many agricultural crops.

# Bee MYTHS



## The History of Imidacloprid ( continued )

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Greedy and avaricious Anti-Pesticide Lunatics have concocted all sorts of « *causes* » for this phenomenon, hoping to attract profits from cash donations, illicit businesses, unqualified employment, and grants, quite often without paying a single penny in taxes.

Of course, overall, these « *links* » and « *causes* » are Anti-Pesticide Lunatic MYTHS !

When used preventively on small White Grubs in turf, imidacloprid provides excellent residual control, in excess of ninety per cent.

Applications that are soil-drenched have a low impact on earthworms and predatory insects.

There are NO measurable adverse effects on bees.

However, if a liquid application of imidacloprid is NOT soil-drenched, predatory insects are definitely affected, and bee colonies have been known to decline.

For years, beekeepers in France have alleged that imidacloprid, when it is used as a seed treatment for sun-flowers under the trade name Gaucho, has affected the behaviour of lots of bees by disrupting mobility, navigation, and feeding behaviour. [ ?!?! ]

Imidacloprid is a systemic insecticide that works its way from the sunflower seed through the plant.

Supposedly, it can also get into the pollen and the nectar.

The introduction of imidacloprid, and its successor, clothianidin, coincided, allegedly, with a significant drop in honey production.

According to National Union of French Beekeepers, the number of hives in France has plummeted from 1.45 million in 1996 to one million in 2003.

# Bee MYTHS



## The History of Imidacloprid ( continued )

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Between 1995 and 2001, the average production of honey went from seventy-five kg/hive down to thirty kg/hive.

This phenomenon became known as Bee Colony Collapse Disorder.

Guess what ?

Scientific studies concluded that the bees were not being affected by imidacloprid, but by a VIRAL DISEASE.

Guess what happened next ?

In 1999, the French government decided nevertheless to withdraw the use of imidacloprid as a sunflower seed treatment.

By the way, the bee problems continued for several years after the prohibition.

Predictably, the beekeepers suspected that residues are continuing to adversely affect their bees.

The Anti-Pesticide and Environmental-Terrorist Movement has gone berserk over this insecticide.

For example, imidacloprid has ranked as fifth on the Anti-Pesticide and Environmental-Terrorist BLACK LIST OF MOST HATED PEST CONTROL PRODUCTS — next to DDT, 2,4-D, glyphosate, and chlorothalonil.

The issue of Bee Colony Collapse Disorder has spilled over into the United States, where the government has given this nonsense added credibility by deciding to initiate a Research Action Plan.

# Bee MYTHS



## The History of Imidacloprid ( continued )

Additionally, the German Office for Consumer Protection and Food Safety has suspended the approval of imidacloprid under the trade names Antarc, Chinook, Faibel, and Gaucho.

On June 16<sup>th</sup>, 2008, Greenpeace, an Environmental-Terrorist-Organization, issued a press release claiming that Bayer, the manufacturer of imidacloprid, has produced pest control products that are the so-called biggest threat to human health and the environment.

Other manufacturers on the Greenpeace list include — Syngenta, Monsanto, and Dow Chemical.

On August 25<sup>th</sup>, 2008, German Coalition Against Bayer Dangers, another Environmental-Terrorist-Organization, brought a charge against Werner Wenning, chairman of the Bayer Board of Management.

German Coalition Against Bayer Dangers accuses Bayer of marketing dangerous insecticides that are leading to the mass deaths of bees all over the world.

Not surprisingly, the charges were introduced in cooperation with German beekeepers, who claim to have lost thousands of hives after poisoning by clothianidin, the successor to imidacloprid.

Meanwhile, the Government of Germany has prohibited the sale of these insecticides since May 2008.

On September 19<sup>th</sup>, 2008, the Government of Italy has prohibited the use of all insecticides classified as neonicotinoid, which include imidacloprid, clothianidin, and others.







**Pest control products  
CAUSE NO HARM, and  
DO NOT HURT BEES**

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

# 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 CLOSURE 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 REVOCATION 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 ARCHIVE 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 SUMMARIZED and CROSS-REFERENCED, and by early 2012, the library was archived on The Pesticide

The Whole Truth from an Independent Perspective

# NORAHG

Truths Web-Site, in the form of Web-Pages.

The information presented in FORCE OF NATURE has been developed for the education and entertainment of the reader by providing a sequence of events WITH COMMENTARY, striving for accuracy in history, politics, and science.

FORCE OF NATURE is TOTALLY INDEPENDENT and provides NO guarantee regarding accuracy or completeness. In no event shall FORCE OF NATURE be liable for any incidental or consequential damages, lost profits, or any indirect damages.

NORAHG also produces A LOOK AT, a series of reports providing TECHNICAL INFORMATION on issues such as Career Management, Golf Course Maintenance, Green Alternatives, Summer Stress, Turfgrass Pests, and Turfgrass Species.

Finally, NORAHG frequently responds to anti pesticide activists in LETTERS TO THE EDITOR in newspapers across Canada and around the world.

All information, excerpts, and pictures contained in FORCE OF NATURE, A LOOK AT, and LETTERS TO THE EDITOR were retrieved from the Internet, and may be considered in the public domain.

FORCE OF NATURE, A LOOK AT, and their various incarnations, was the brainchild of William H. Gathercole and his colleagues in 1991. Mr. Gathercole is now retired, although his name continues to appear as founder.

Here is a brief summary of Mr. Gathercole's career —

Fields of study — Horticulture/Agriculture, Mathematics, Physics

Alma mater — McGill University • University of Guelph • the first person ever to obtain university degrees and contribute to both the professional lawn care and golf maintenance industries

Expertise in — environmental issues and anti pesticide terrorism • turf and ornamental maintenance and troubleshooting • history of the industry • sales and distribution of seeds, chemicals, fertilizers, and equipment • fertilizer manufacturing and distribution

Notable activities — worked in virtually all aspects of the green space industry, including golf, professional lawn care, distribution, environmental compliance, government negotiations, public affairs, and workplace safety • supervisor, consultant, and, programmer for the successful execution of hundreds of thousands of management operations in the golf and urban landscape, as well as millions of pest control applications • advisor, instructor, and trainer for thousands of turf and ornamental managers and technicians • pesticide certification instructor for thousands of industry workers • founder of the modern professional lawn care industry • prolific writer for industry publications and e-newsletters • first to confirm the invasion of European Chafer insect in both the Montreal region and the Vancouver / Fraser Valley region • with Dr. Peter Dernoeden, confirmed the presence of Take All Patch as a disease of turf in Eastern Canada • with Dr. David Shetlar, confirmed the presence of Kentucky Bluegrass Scale as an insect pest in South Western Ontario, and later, in the Montreal and Vancouver regions

Special contributions — creator of the exception status that has allowed the golf industry to avoid being subjected to anti pesticide prohibition • creator of the signs that are now used for posting after application • co-founder of annual winter convention for Quebec golf course superintendents • the major influence in the decision by Canadian Cancer Society to stop selling for profit pesticide treated daffodils • the only true reliable witness of the events of anti pesticide prohibition in the town of Hudson, Quebec • retired founder of FORCE OF NATURE and A LOOK AT reports

Notable award — the very first man of the year for contributions leading to the successful founding of Quebec professional lawn care industry, which served as a beach-head against anti pesticide activists in the 1980s and 1990s

Legacy — Mr. Gathercole and his colleagues ... designed and implemented strategies that reined anti pesticide activists to provide peace and prosperity for the entire modern green space industry across Canada • orchestrated legal action against anti pesticide activists in the town of Hudson, Quebec • launched the largest founding professional lawn care business in Canada • quadrupled the business revenues of one of the largest suppliers in Canada

Mr. Gathercole is now retired, although his name continues to appear as founder of FORCE OF NATURE and A LOOK AT reports.