



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)

Pest control on crops is **UNLIKELY** to cause so-called Bee Colony Collapse Disorder.

Research now shows that the effects of insecticide are **NOT AS SEVERE AS FIRST THOUGHT.**

The calculations made in **PREVIOUS RESEARCH** were **FLAWED.**

Scientists from the University of Exeter and Food and Environment Agency highlight **FLAWS** in **PREVIOUS RESEARCH** (published in the journal Science, April 2012) that predicted that neonicotinoid insecticides could cause so-called Bee Colony Collapse Disorder.

Researchers know that neonicotinoids affect honey bees, but there is **NO EVIDENCE** that they could cause so-called Bee Colony Collapse Disorder.





Myth-BUSTING

Pesticides Not Yet Proven Guilty Of Causing Honey Bee Declines

September 20th, 2012

University of Exeter

Media Release

Selected and Adapted Excerpts

The University of Exeter is a public research university located in South West England. 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 20.

Pesticides Not Yet Proven Guilty of Causing Honey Bee Declines

Lead author Dr. James Cresswell of Biosciences at the University of Exeter said —

We know that neonicotinoids affect honey bees, but there is NO EVIDENCE that they could cause colony collapse.

When we repeated the previous calculation with a realistic birth rate, the risk of colony collapse under pesticide exposure disappeared.

I am definitely not saying that pest control products are harmless to honey bees, but I think everyone wants to make decisions based on sound evidence — and our research shows that the effects of thiamethoxam are NOT AS SEVERE AS FIRST THOUGHT.

We do not yet have definitive evidence of the impact of these insecticides on honey bees, and we should not be making any decisions on changes to policy on their use.

It is vital that more research is conducted so that we can understand the real impact of neonicotinoids on honey bees, so governments can put together a proper plan to protect them from any dangers that the chemicals pose.



A woman with long, straight red hair is shown from the waist up. She is wearing a black tactical suit with a high collar and a utility belt. She is holding a sword with a curved blade. The background is a dark, industrial setting with orange and red lighting.

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

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Background Information from an Independent Perspective

Bee **FACTS**



Exposing Misconceptions About the Imaginary Threat of Pest Control Products

CropLife Canada — Facts About Honey Bee Health and Pesticides

Agriculture Protects Pollinators

POLLINATORS in Canada, such as HONEY BEES and WILD BEES, pollinate many fruits, vegetables, field crops such as canola, and flower gardens.

They are an essential part of a robust agricultural system.

Honey bee 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.

CropLife Canada — Facts About Honey Bee Health and Pesticides

What Is Causing Elevated Over-Wintering Honey Bee Losses In Canada ?

Over the past four or five years, OVER-WINTERING HONEY BEE 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 provinces.

RESEARCHERS HAVE NOT IDENTIFIED A SINGLE 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.



Bee **FACTS**



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 **SIGNIFICANT IMPROVEMENT IN OVER-WINTERING LOSSES**, likely due to the mild winter and better disease control.

CropLife Canada — Facts About Honey 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 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.

Bee **FACTS**



CropLife Canada — Facts About Honey 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.

As scientific information evolves, pest control products are continuously re-evaluated to ensure they meet the latest safety standards.

CropLife Canada — Facts About Honey Bee Health and Pesticides

Is There Any Connection Between Neonicotinoid Insecticides and Long-Term Honey Bee Losses In Canada ?

There is **NO EVIDENCE TO SUGGEST A LINK** between neonicotinoid insecticides and long-term honey bee 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.

Bee **FACTS**



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).

CropLife Canada — Facts About Honey 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 data.

Unfortunately, these studies have received wide media attention.

CropLife Canada — Facts About Honey 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.**

Bee **FACTS**



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 non-target 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 season.

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

CropLife Canada — Facts About Honey 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 recommendations.

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.



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

FORCE OF NATURE | THE WHOLE TRUTH FROM AN INDEPENDENT PERSPECTIVE from
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N O R A H G

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

N O R A H G

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.