Pesticide Truths

Myth-BUSTING The Bee Conspiracy – Two Bumble Bee Queen Studies – Fanatжcal Versus Legitimate – Science Is Being Massaged By Truth-Challenged Bee Conspiracy Fanatжcs – Bees Around The World Are At All-Time Highs – The Wisdom Of Mr Jon Entine – 2017 09 26

October 5, 2017 WILLIAM H GATHERCOLE AND NORAH G



Fanat**xcal** Vs Legitimate

Tale Of Two Bumble Bee Queen Studies

Science Is Being Massaged By Truth-Challenged Bee Conspiracy Fanatxcs

Myth-BUSTING The Bee Conspiracy With The Wisdom Of Mr Jon Entine

The Two August 2017 Bumble Bee Queen Studies

Summary Of Text

September 26th, 2017

Mr Jon Entine (See Biography In Later Segment)

Genetic Literacy Project

Summary Of Text

Selected And Adapted Excerpts

Summary — Myth-BUSTING The Bee Conspiracy

Bumble Bee Studies & Neonicotinoid Insecticides

✓ FACT — Two Bumble Bee Studies Were Published In August 2017
 — The Fanatxcal Ideologically-Driven Study That Failed To Show Any Risk Of Extinction VERSUS The Legitimate & Credible Study That Found No Impact Of Insecticide Exposure

√ FACT — Bee Conspiracy Fanatæcs Have Shifted Their Ideologically-Driven Attacks From Honeybees To Bumble Bees, Because Honeybees Are No Longer Considered Endangered

SUMMARY

For the last decade, bee conspiracy fanat**xcs**, joined by some bee-keepers and activist-scientists, have fingered a culprit for the presumed mass honeybee die-off.

These fanat**xcs** have blamed neonicotinoid insecticides for everything from so-called bee colony collapse disorder — a still-unexplained condition in which bees suddenly abandon their colonies that has come and gone over the last decade, just as it has many times in history — to recent years' elevated over-winter honey bee colony losses.

Their FALSE-ALARMS are part of a LARGELY IDEOLOGICALLY-DRIVEN AGENDA.

There has been a huge volume of data, including many field studies, on honeybees, which show that, in real world conditions, honeybees ARE NOT ENDANGERED because of Neonicotinoid Insecticides.

Consequently, the focus of bee conspiracy fanatxcs SHIFTED TO BUMBLE BEES once it was clear that HONEYBEES WERE NOT ENDANGERED by neonicotinoid insecticides.

√ FACT — Losses Of Honeybees Have Occurred Mainly Because They Have Been Mis-Managed Like Agricultural Livestock By Incompetent & Unskilled Bee-Keepers

SUMMARY

Many bee-keepers have NO idea what they are doing, and are simply NOT skilled to raise bees — their honeybees are MIS-MANAGED LIKE AGRICULTURAL LIVESTOCK, which adds formidable stress.

There have been some spikes in the over-winter losses of bees beyond the 20 per cent, or so, that is considered unacceptable by bee-keepers.

But it has become clear to most entomologists that the health problems afflicting honeybees are attributable to a complex set of factors.

Overall, the main causes of honeybee losses are *Varroa* mites, poor queens, weak colonies, weather conditions, as well as bee-keeper incompetency — bee-keepers know full well that these are the primary problems associated with bee losses, and not insecticides.

Varroa mites transmit, and make virulent, up to a dozen viruses and diseases in honey bee colonies — and have been around in growing numbers since the 1980s.

Some bee-keepers have been losing their bees over and over again simply because they are INCOMPETENT AND UNSKILLED — they MIS-MANAGE THEIR BEES BY TREATING THEM LIKE AGRICULTURAL LIVESTOCK.

√ FACT — University Of Guelph Has Attempted To Discredit The Legitimate / Credible Bumble Bee Study, By Prejudicially Favouring Another Study With Apocalyptic Findings Of The Ideologically-Driven Fanatscs

SUMMARY

In August 2017, TWO STUDIES on the health of BUMBLE BEES and so-called links to Neonicotinoid Insecticides were published SIMULTANEOUSLY the science journal Nature.

And they came up with RADICALLY DIFFERENT CONCLUSIONS as to the effect of the neonicotinoid insecticides, as interpreted by both FANAT**XCAL** versis LEGITIMATE & CREDIBLE researchers.

Both studies were NOT identical in focus, although they had one co-author in common — Nigel Raine, the neonicotinoid-hating and fanatæcal-activist researcher, of the University of Guelph.

Raine has already been ASSOCIATED WITH A NUMBER OF CONTROVERSIAL STUDIES against neonicotinoid insecticides.

Both studies looked at different stages in the life cycle of BUMBLE BEES and their QUEENS.

However, the findings about the differences in bee health could NOT have been more different.

And what about the University of Guelph, which operates as a left-wing pesticide-hating institution in Ontario.

On what basis does this institution promote the APOCALYPTIC findings of a fanatzcal study while IGNORING THE CONTRADICTORY FINDINGS of another, more legitimate and more credible, study.

√ FACT — The Legitimate Study's Remarkable Conclusion Was That There Are No Adverse Neonicotinoid Effects On Mature Colonies

SUMMARY

The legitimate & credible bumble bee queen study, led by Dara Stanley, found that neonicotinoid insecticides CAUSED NO SERIOUS ISSUES, but was IGNORED by the left-wing fake-news media.

Furthermore, this study DID NOT benefit from advance press advisories — and predictably, unlike the parallel study, it was NOT heavily promoted by University of Guelph and received NO press attention.

Could this be because its conclusion was REMARKABLE, but in a different way - this legitimate study identified NO NEGATIVE EFFECTS ?!?!

Tellingly, neither Nature, nor any of the fake-news media coverage, even bothered to mention this parallel study.

According to the legitimate bumble bee queen study's REMARKABLE CONCLUSION — We found NO IMPACT OF INSECTICIDE EXPOSURE on colony weight gain or the number and mass of sexual produced, although colonies exposed to 2.4 ppb produced larger males.

√ FACT — The Fanatxcal Study Failed To Show That There Was Evidence That Bumble Bees Are At Risk For Extinction

SUMMARY

The fanat**xcal** bumble bee queen study, led by Gemma Baron of the United Kingdom's Royal Holloway University, suggested queens might face MORTAL DANGER. [?!?!]

This study was widely circulated by the left-wing fake-news media as DEFINITIVE. [?!?!]

It placed bumble bees at the RISK OF EXTINCTION. [?!?!]

According to Raine — This study shows that neonicotinoids COULD be having a DEVASTATING EFFECT on wild bumble bee populations. [?!?!]

It is not hard to see why this fanatxcal study got intense fake-news media attention.

Apocalyptic predictions grab headlines and generated a tremendous amount of fake-news coverage.

However, this fanatxcal study CONTRADICTS what we know already about bees and neonicotinoid insecticides.

The German Plant Protection Industry Group, and some expert independent toxicological bee research scientists, DISMISSED this fanatwcal study as typical of CAMPAIGN-STYLE ADVOCACY RESEARCH with the sole aim of DISCREDITING PLANT PROTECTION PRODUCTS.

Additionally, the fanatxcal study DID NOT make its case.

There is still NO EVIDENCE that bumble bees are at risk for global extinction, or even localized extinction, in the wild.

√ FACT — Honeybee Colonies Around The World Are At All-Time Highs

SUMMARY

It is now widely understood that bee populations are at GENERATIONAL HIGHS, RISING in Europe and in North America.

With some set-backs, linked largely to cold winters and the lingering effects of so-called bee colony collapse disorder, bee populations have been RISING ever since Neonicotinoid Insecticides came on the market in the mid-1990s.

There is NO honeybee apocalypse on the horizon.

√ FACT — Bee Catastrophe Speculation Against Neonicotinoid Insecticides Is Just Not Supported By Legitimate & Credible Scientific Data

SUMMARY

Legitimate expert-scientist Ms Angela Gradish questions many aspects of the fanat**x**cal bumble bee study, and its central conclusion.

It is a form of CATASTROPHE SPECULATION THAT IS JUST NOT SUPPORTED BY THE DATA, Ms Gradish said.

According to Ms Gradish, Post-Doctoral Fellow and Pesticide Eco-Toxicologist, who researches and teaches at University of Guelph — That's just not enough information to make such a sweeping conclusion. By characterizing this study as « realistic », the authors imply that the results they've obtained are likely to happen. But what they've actually replicated is a type of WORST CASE SCENARIO. We have other studies that have shown NO effects, so giving studies like this exclusive coverage, gives the false impression all the research points in the same direction, to health threats. This was what I would call a « worst case » exposure scenario. The bottom line is what happens in the REAL WORLD.

$\sqrt{\mathsf{FACT}}$ — Bee Losses Caused By Neonicotinoid Insecticides Is A Myth

SUMMARY

Science is being massaged by untruthful bee conspiracy fanatxcs.

Overall, so-called links and causes between bee losses and neonicotinoid insecticides are mere MYTHS.

There is NO neonicotinoid crisis.

The MYTH of disappearing bees is a political disease that can only be eradicated with the truth.

Myth-BUSTING The Bee Conspiracy With The Wisdom Of Mr Jon Entine

The Two August 2017 Bumble Bee Queen Studies

Complete Text

Science Can Be Massaged

September 26th, 2017

Mr Jon Entine (See Biography In Later Segment)

Genetic Literacy Project

Complete Text

Selected And Adapted Excerpts

Fanatxcal Versus Legitimate / Credible Studies

Two Bumble Bee Studies Were Published In August 2017 — The Fanatxcal Ideologically-Driven Study That Failed To Show Any Risk Of Extinction VERSUS The Legitimate Study That Found No Impact Of Insecticide Exposure

TWO STUDIES on the health of BUMBLE BEES and [so-called] links to Neonicotinoid Insecticides were published SIMULTANEOUSLY in August 2017 in sister publications of the prestigious science journal empire Nature.

Both examined closely similar scientific questions, with somewhat different experimental methodologies.

But the [legitimate & credible] study that found that Neonicotinoid Insecticides CAUSED NO SERIOUS ISSUES was IGNORED by the media while the one suggesting a bee-apocalypse was widely played up as « definitive ». [?!?!]

Let's unpack what these studies actually showed, and reflect on why the studies have been reported on so differently.

The studies were NOT identical in focus, although they had one author in common — NIGEL RAINE[the neonicotinoid-hating & fanatxcal-activist-researcher] of the UNIVERSITY OF GUELPH [the left-wing pesticide-hating institution] in Ontario.

They looked at different stages in the life cycle of BUMBLE BEES and their queens.

So, on that basis alone, the findings about the differences in bee health could have been different.

But the issue here is not only the conclusions, but the reporting on the studies.

The fanat**xca**l ideologically-driven study FAILED to show any risk of bumble bee extinction.

The legitimate/credible study that found NO IMPACT of insecticide exposure on bumble bees.

Bumble Bee Queen Studies — Science Can Be Massaged — The Wisdom Of Entine

The Fanatxcal Bumble Bee Study

Listening To Nigel Raine Is WRONG Since He Is The Controversial Neonicotinoid-Hating Researcher & Co-Author Of The Fanatxcal Bumble Bee Queen Study

Rain Is Employed By The University Of Guelph, The Left-Wing Pesticide-Hating Institution In Ontario

One [fanatxcal] study — the one that suggested bumble bee queens might face mortal danger [?!?!] — was widely circulated.

It reported, according to a press release by the [left-wing pesticide-hating] UNIVERSITY OF GUELPH, that Neonicotinoid Insecticides placed bumble bees at the risk of extinction. [?!?!]

According to NIGEL RAINE [the neonicotinoid-hating & fanatxcal-activist-researcher] —

This [fanatxcal] study shows that NEONICOTINOIDS COULD BE HAVING A DEVASTATING EFFECT ON WILD BUMBLE BEE POPULATIONS [?!?!].

We urgently need to know more about how pesticides could be affecting other species to make informed decisions about the risks associated with using these chemicals.

It's not hard to see why this [fanatxcal] study got intense media attention.

APOCALYPTIC PREDICTIONS GRAB HEADLINES.

Understandably, this [fanatxcal] study generated a tremendous amount of scary news coverage.

The	e media	was	all ov	er this	[far	natж <mark>cal</mark>]	stuc	ly with	literally	dozens	of	stories
in prestigious publications and it swamped social media.												

Myth-BUSTING Surmous for reducing 100 miles 1

world WITHOUT BEES

Falsely-Predicting The Demise Of Honey Bees In *Time* Cover Story

FORCE OF NATURE | DARING TO DEFY BY EXPLORING THE WHOLE TRUTH FROM AN INDEPENDENT PERSPECTIVE

National Organization Responding Against HUJE that conspire to destroy the Green space and other industries (NORAHG)

Fanatwcal Study's Bee-Apocalypse That Never Happened

Honeybee Colonies Around The World Are At All-Time Highs

Bee Losses Caused By Neonicotinoid Insecticides Is A Myth

The title of the [fanatxcal] study's press release was APOCALYPTIC.

The [fanatxcal] study also CONTRADICTS what we know about honeybees and Neonicotinoid Insecticides, a subject of intense scrutiny.

For years, a minority of scientists and an overwhelming majority of reporters with LITTLE CLUE ABOUT THE SCIENCE, predicted the demise of honey bees — remember the now infamous 2013 *Time* cover story, *A World Without Bees*. [See card above.]

Since then the opposite has happened.

Honeybee colonies around the world ARE AT ALL-TIME HIGHS.

[See later segment entitled Bees Are GROWING & THRIVING.]

Environmental advocates [i.e. bee conspiracy fanatxcs], joined by some bee-keepers and [activist-]scientists, had already fingered a culprit for the presumed mass honeybee die-off.

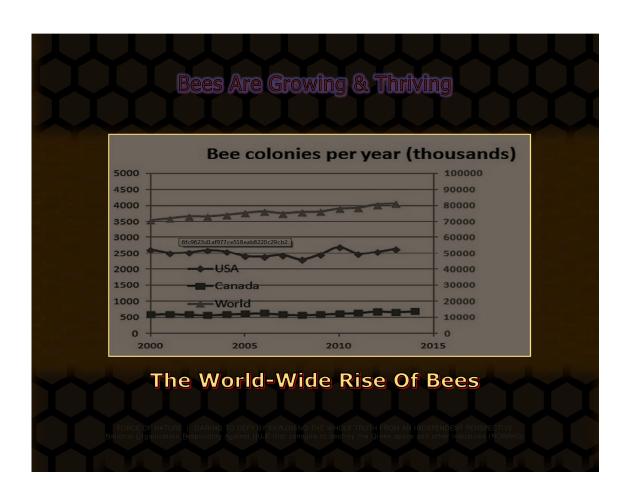
They have BLAMED Neonicotinoid Insecticides for everything from [so-called] bee colony collapse disorder — a still-unexplained condition in which bees suddenly abandon their colonies that has come and gone over the last decade, just as it has many times in history — to recent years' elevated over-winter honey bee colony losses.

Now we know that was a FALSE, LARGELY IDEOLOGICALLY DRIVEN, ALARM.

It's now widely understood that bee populations are at GENERATIONAL HIGHS, rising in Europe and North America.

With some set-backs, linked largely to cold winters and the lingering effects of [so-called] bee colony collapse disorder, bee populations have been RISING ever since Neonicotinoid Insecticides came on the market in the mid-1990s.

There is NO honeybee apocalypse on the horizon.



Winter Death Rates & Bee-Keeper Mis-Management

Losses Of Honeybees Have Occurred Mainly Because They Have Been Mis-Managed Like Agricultural Livestock By Incompetent & Unskilled Bee-Keepers

That's not to say that all is rosy with the world bee population.

There have been some spikes in the over-winter death rate beyond the 20 per cent or so that is considered unacceptable by bee-keepers.

[Overall, the main causes of honeybee losses are Varroa mites, poor queens, weak colonies, weather conditions, as well as bee-keeper incompetency — bee-keepers know full well that these are the primary problems associated with bee losses, and not insecticides.]

And bees, which are TREATED LIKE AGRICULTURAL LIVESTOCK by commercial bee-keepers, do face unusual stressors.

But it's become clear to most entomologists that the health problems afflicting honeybees are attributable to a complex set of factors, at the center of which is the ubiquitous and hard-to-combat *Varroa* Mite.

The pest transmits and makes virulent up to a dozen viruses and diseases in honey bee colonies — and has been around in growing numbers since the 1980s.

Fanatxcal Study's Claim That Bumble Bees Are Near Extinction

Bee Conspiracy Fanatжcs Have Shifted Their Ideologically-Driven Attacks From Honeybees To Bumble Bees, Because Honeybees Are No Longer Considered Endangered

But what about BUMBLE BEES ?!?!

The focus of anti-pesticide campaigners SHIFTED TO BUMBLE BEES once it was clear that honeybees were NOT ENDANGERED.

There is a huge volume of data, including many field studies, on honeybees, which show that in real world conditions, HONEYBEES ARE NOT ENDANGERED because of Neonicotinoid Insecticides.

There is not so much research on BUMBLE BEES, however.

These two recent studies were designed to begin to address that research gap.

Both studies addressed the effects of one Neonicotinoid Insecticide — Thiamethoxam — on BUMBLE BEE colonies.

Neither could be called « field realistic ».

One focused on queens before they started laying eggs.

The other targeted established colonies.

Both exposed their target subjects to jugs of neonicotinoid-laced syrup over many days — nothing like they would have experienced in REAL WORLD conditions.

And THEY CAME UP WITH RADICALLY DIFFERENT CONCLUSIONS as to the effect of the chemical, as interpreted by the researchers.

Let's dig deeper.

The [fanatxcal] study on queens, led by GEMMA BARON of the United Kingdom's Royal Holloway University, exposed mated (fertilized) queen

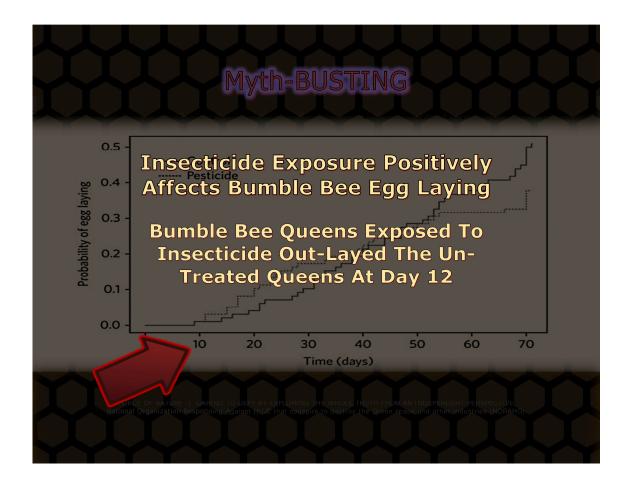
bees of *Bombus terrestris* — one of the most ubiquitous of the more than 250 known BUMBLE BEE species — to two weeks of laboratory feedings of sugar syrup spiked with what was claimed to be « *field realistic* » concentrations of the Neonicotinoid Insecticide Thiamethoxam (2.4 parts per billion).

[Bombus terrestris, the buff-tailed bumble bee or large earth bumble bee, is one of the most numerous bumble bee species in Europe.]

The result, they said, was a 26 per cent reduction in the frequency of treated queens initiating a new colony by post-hibernation egg-laying.

The reduction was said to be more pronounced after a long hibernation (12 weeks) rather than a short one (6 weeks) — even though a realistic hibernation would be more like 6-9 months!

The [fanatxcal] study's key finding was summarized in this graphic. [See card below.]



Bumble Bee Queen Studies $\,-\,$ Science Can Be Massaged $\,-\,$ The Wisdom Of Entine

Effect Of Pesticide Exposure On Egg Laying

Insecticide Exposure Positively Affects Bumble Bee Egg Laying

Bumble Bee Queens Exposed To Insecticide Out-Layed The Un-Treated Queens At Day 12 This event history curve of the [fanatxcal] study shows the cumulative probability of egg laying (from the end of hibernation (zero days) until the first egg was laid by queens exposed to either the insecticide Thiamethoxam or a control.

But look at the [fanatxcal] study's graph carefully, and notice the crossed lines near 50 days.

The graph shows that BUMBLE BEE queens exposed to Thiamethoxam outlayed the un-treated (control) queens from around day 12.

Only after day 50 did the treated queens' egg-laying plateau and the untreated (control) queens' egg-laying decidedly surpass it.

That slender basis drove the radical conclusions of the [fanatxcal] study, which — recklessly say some scientists — PROJECTED THE POSSIBLE EXTINCTION of one of the world's most prolific and ubiquitous wild bee species.

Bumble Bee Queen Studies — Science Can Be Massaged — The Wisdom Of Entine

Ms Angela Gradish - Part 1

Bee Catastrophe Speculation Against Neonicotinoid Insecticides Is Just Not Supported By Legitimate Scientific Data

According to [Legitimate Expert-Scientist] Ms Gradish, Post-Doctoral Fellow and Pesticide Eco-Toxicologist, who also happens to research and teach at UNIVERSITY OF GUELPH —

That's just not enough information to make such a sweeping conclusion.

Ms Gradish does not currently do research on Neonicotinoid Insecticides, but is a Pesticide Eco-Toxicologist who studies the impact of pesticides on pollinators.

MS GRADISH QUESTIONS MANY ASPECTS OF THE STUDY, AND ITS CENTRAL CONCLUSION.

According to Ms Angela Gradish, Post-Doctoral Fellow and Pesticide Eco-Toxicologist —

By characterizing this study as « realistic », the authors imply that the results they've obtained are likely to happen.

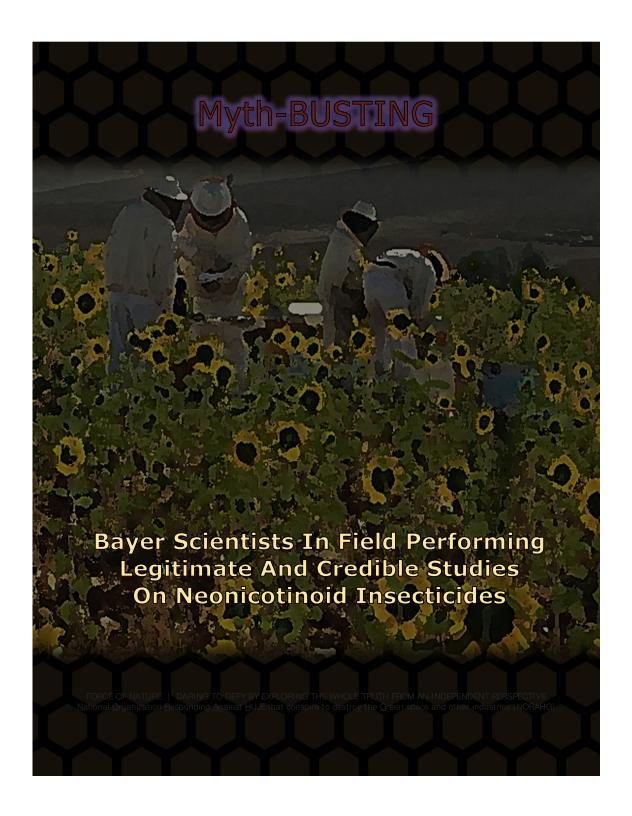
But what they've actually replicated is a type of WORST CASE SCENARIO.

IT'S A FORM OF CATASTROPHE SPECULATION THAT'S JUST NOT SUPPORTED BY THE DATA, Ms Gradish said.

According to Ms Angela Gradish, Post-Doctoral Fellow and Pesticide Eco-Toxicologist —

We have other studies that have shown NO effects, so giving studies like this exclusive coverage, gives the false impression all the research points in the same direction, to health threats.

Other research tells a different story — notably the United Kingdom's Center for Ecology and Hydrology August 2016 study modeling neonicotinoid impacts on wild bee populations in England and David Kleijn's team's June 2015 study of crop pollination services by wild pollinators) showing that *Bombus terrestris*, among other bee species that forage on neonicotinoid-treated oilseed rape crops, HAD NOT EVEN DECLINED, MUCH LESS STARTED TOWARD EXTINCTION.



Fanatwcal Study's Exaggerated Results

But this [fanatxcal] study's results have been EXAGGERATED in other ways.

First, NO real explanation is offered for why BUMBLE BEE queens exposed to the Thiamethoxam consistently outperformed unexposed queens in egglaying during the first two-thirds to three-fourths of the study period.

The most logical explanation is heresies — a well-known phenomenon in which low doses of certain pesticides have a simulative effect on some insect activities and functions.

I've noted this phenomenon previously in other studies of Neonicotinoid Insecticides' effects on bees, but it's not even mentioned or explored in this [fanatxcal] study on BUMBLE BEES led by GEMMA BARON.

Bumble Bee Queen Studies — Science Can Be Massaged — The Wisdom Of Entine

Ms Angela Gradish - Part 2

Second, as [Legitimate Expert-Scientist] Ms Gradish points out, what's claimed to be a « field-realistic » dose of 2.4 ppb of neonicotinoid-spiked sugar syrup fed to the BUMBLE BEE queens for 14 days is almost certainly **UN**realistic.

Ms Angela Gradish is a Post-Doctoral Fellow and Pesticide Eco-Toxicologist.

There is NO single concentration that is universally agreed upon as realistic, Ms Gradish says.

Fanatxcal Study's Cherry-Picking

RESEARCHERS ARE FREE TO USE WHAT THEY WANT AND EVERYONE SEEMS TO CHERRY-PICK A VALUE FROM THE LITERATURE.

This figure was taken from a 2013 field study by the United Kingdom's Food and Environment Research Agency of neonicotinoid effects on BUMBLE BEES.

But, of the three experimental sites in that study -2.4 ppb was the highest neonicotinoid concentration detected, not the average or the median.

The other two sites' detected concentrations of 0.885 ppb and 0 ppb.

In other words, this [fanatxcal] study's authors CHOSE THE WORST-CASE SCENARIO DOSE from one BUMBLE BEE study — not even an average 0.986 ppb — of the concentrations found at its three sites — and represented it as « field-realistic » — with NO justification.

By this logic, a field-realistic Thiamethoxam dose for *Bombus terrestris* queens for this [fanatxcal]study could just as easily have been less than 1 ppb (0.885) — or even zero ppb!

Even if the dosage might be the correct one, it still DOES NOT make the [fanatxcal] study any more convincing.

« Force-feeding bees even a realistic concentration continuously for 14-27 days, as they did in these two studies, is not realistic or representative of what they would be exposed to in real life ».

In other words, weeks of exclusively feeding neonicotinoid-spiked syrup to BUMBLEBEE queens is itself field-**UN**realistic.

In field settings, even amid large acreage of neonicotinoid-treated crops, Bombus terrestris queens would have access to wild flowers and other natural forage plants surrounding the planted croplands.

These would dilute their neonicotinoid-treated diet in ways not reflected in this lab [fanatxcal] study.

According to [Legitimate Expert-Scientist] Ms Angela Gradish, Post-Doctoral Fellow and Pesticide Eco-Toxicologist —

This was what I would call a « worst case » exposure scenario.

In the REAL WORLD, bees DO NOT forage on only one type of plant continuously for weeks on end, and they are NOT exposed to residues in every plant at the highest values ever recorded, like this type of exposure scenario assumes.

SOME STUDIES INDICATE THAT AS MUCH AS 95 PER CENT OF SEED-TREATED CROP PLANTS SHOW NO TRACES OF NEONICOTINOID INSECTICIDES AT FLOWERING.

So, it's important to interpret the results from such studies in a worst-case scenario context.

These research design choices are a familiar recipe — one I've written about repeatedly — OVERDOSE BEES WITH NEONICOTINOID INSECTICIDES IN A FIELD TEST OR LABORATORY (WITHOUT BEING CLEAR THAT THIS IS WHAT'S BEEN DONE); DISCOVER (NO SURPRISE) SOME NEGATIVE EFFECT.

THEN, EXTRAPOLATE THE RESULT TO A SCARY CONCLUSION.

Add press promotion (e.g., an embargoed university press release) and, voilà — instant publicity for a new « scientific discovery ».

Bumble Bee Queen Studies $\,-\,$ Science Can Be Massaged $\,-\,$ The Wisdom Of Entine

The « Other » Legitimate / Credible Study

The Legitimate/Credible Study's Remarkable Conclusion Was That There Are No Adverse Neonicotinoid Effects On Mature Colonies

Only this time, on the very same day that Nature published GEMMA BARON's team's [fanatxcal] study, it also published a study by Dara Stanley, also teamed with NIGEL RAINE [the neonicotinoid-hating & fanatxcal-activist-researcher].

More prosaically titled, « Bumble Bee Colony Development Following Chronic Exposure To Field-Realistic Levels Of The Neonicotinoid Pesticide Thiamethoxam Under Laboratory Conditions », this study subjected different groups of mature Bombus terrestris colonies to two different neonicotinoid exposure levels — 2.4 ppb and 10 ppb — or up to 27 days.

The [legitimate & credible] study DID NOT benefit from advance press advisories — and predictably, unlike the parallel study, it was NOT heavily promoted by UNIVERSITY OF GUELPH and received NO press attention.

Could it be because its conclusion was remarkable, but in a different way — the [legitimate & credible] study identified NO NEGATIVE EFFECTS ?!?!

« WE FOUND NO IMPACT OF INSECTICIDE EXPOSURE ON COLONY WEIGHT GAIN OR THE NUMBER AND MASS OF SEXUAL PRODUCED, although colonies exposed to 2.4 ppb produced larger males. »

Tellingly, neither Nature nor any of the media coverage devoted to the alarming-sounding GEMMA BARON's [fanatxcal] study even bothered to mention this parallel study, which found NO ADVERSE NEONICOTINOID FEFFCTS ON MATURE BOMBUS TERRESTRIS COLONIES.

Maybe that's why the German Plant Protection Industry Group, and some independent scientists familiar with the nuts and bolts of toxicological bee research DISMISSED THE FIRST [fanatxcal]STUDY AS TYPICAL OF « CAMPAIGN-STYLE ADVOCACY RESEARCH » WITH « THE SOLE AIM OF DISCREDITING PLANT **PROTECTION** PRODUCTS ».

Bumble Bee Queen Studies — Science Can Be Massaged — The Wisdom Of Entine

And What About The University Of Guelph ?!?!

University Of Guelph Has Attempted To Discredit The Legitimate Bumble Bee Study, By Prejudicially Favouring Another Study With Apocalyptic Findings Of The Ideologically-Driven Fanatжcs

The Fanatxcal Study Failed To Show
That There Was Evidence That Bumble
Bees Are At Risk For Extinction

On what basis do they promote the APOCALYPTIC findings of one study while IGNORING THE CONTRADICTORY FINDINGS of another study — co-authored by the same well known researcher, NIGEL RAINE [the neonicotinoid-hating & fanatxcal-activist fanatxcal-activist-researcher], who has been ASSOCIATED WITH A NUMBER OF CONTROVERSIAL STUDIES critical of Neonicotinoid Insecticides — that was published on the same day in a Nature-owned journal.

According to [Legitimate Expert-Scientist] Ms Angela Gradish, Post-Doctoral Fellow and Pesticide Eco-Toxicologist —

The bottom line is what happens in the REAL WORLD.

As far as I'm aware, THERE ISN'T ANY EVIDENCE THAT THIS SPECIES OF BUMBLE BEE IS AT RISK FOR EXTINCTION OR EVEN LOCALIZED EXTINCTION IN THE WILD.

This study doesn't make its case.

Jon Entine is executive director of the Genetic Literacy Project.

Background Information

Bees Are GROWING & THRIVING

Background Information

√ FACTS About Honeybee Colonies & Production

√ FACT — Honeybee Colonies & Production Are Growing & Thriving In Canada, In America, & Around The World

√ FACT — Concern About Bee Health & Neonicotinoid Insecticides Is Not Warranted

√ FACT — There Are No Plummeting Bee Numbers — Bees Are Not Dying Off — There Is No Bee-Pocalypse Because Of Neonicotinoid Insecticide Use — Bees Are Actually Growing & Thriving

√ FACT — America's Honeybee Population Is The Highest Its Been In Twenty Years

√ FACT — Historically, Honeybee Crises Are Nothing New Since Heavy Losses Have Been Reported For A Very Very Long Time,

Decades & Centuries Before The Introduction Of Neonicotinoid Insecticide

√ FACT — Why Are A Few Bee-Keepers Losing Their Bees ?!?! — Some Bee-Keepers Are Losing Their Bees Over & Over Again Simply Because They Are Incompetent & Unskilled

√ FACT — Many Bee-Keepers Have No Idea What They Are Doing, & Are Simply Not Skilled To Raise Bees — Their Bees Are Mis-Managed Like Agricultural Livestock, Which Adds Formidable Stress

√ FACT — Many Bee-Keepers Appear To Be Unable Or Unwilling To Get Their Major Pest Problems Under Control, Such As Varroa Mites — They May Not Be Competent To Handle Their Businesses, & May Be Wholly Unsuited To Be Raising Bees

√ FACT — Overall, The Main Causes Of Honeybee Losses Are Varroa Mites, Poor Queens, Weak Colonies, Weather Conditions, As Well As Bee-Keeper Incompetency — Bee-Keepers Know Full Well That These Are The Primary Problems Associated With Bee Losses, & Not Insecticides

√ FACT — Neonicotinoid Insecticides Cannot Harm Bees Since Agriculture's Best Management Practices With Neonicotinoid-Treated Seeds, Which Is A Safe & Effective Way To Protect Crops While Also Minimizing Exposure To Bees

√ FACT — When Used Properly In Agriculture, Neonicotinoid Insecticides Will Selectively & Effectively Control Insect Pests, But Are Completely Safe For Other Non-Target Organisms — They Do Not Harm Bees, & Have No Persistence Beyond The Season Of Use

√ FACT — Neonicotinoid Insecticides Cannot Harm Bees Since Agriculture's Best Management Practices Minimize Any Potential Direct Exposure To Bees, Such As Coated-Seed Treatment

√ FACT — Because Agriculture's Coated-Seeds Are Buried In The Soil, Insecticides Are Rendered Inaccessible To Bees & Other Non-Target Organisms

√ FACT — This Best Management Practice Ensures That The Potential Exposure To Bees Is At Very Low Levels, Far Too Low To Cause Harmful Effects By The Agriculture Industry

√ FACT — Neonicotinoid Insecticides Cannot Harm Bees Since They Systemically Penetrate Into The Plant Tissues Where They Remain Inaccessible To Bees

√ FACT — Simple-Minded Bee Conspiracy Fanatxcs Mock-React To Bee Losses As If They Were The Armenian Genocide — They Regularly Hold Lunatxc Bee Die-Ins Where They Dress Up In Bee Costumes & Lie On The Ground To Be Sprayed By Mock-Insecticide, & Give Mock-Eulogies & Hold Mock-Memorials For Dead Bees

√ FACT — Overall, So-Called Links & Causes Between Bee Losses & Neonicotinoid Insecticides Are Mere Myths

√ FACT — There Is No Neonicotinoid Crisis

√ FACT — The Myth Of Disappearing Bees Is A Political Disease That Can Only Be Eradicated With The Truth

SUMMARY

Bee conspiracy fanat**xcs** who conspire to prohibit against neonicotinoid insecticides are known to hate and despise the human race, and seek its demise.

According to these **fanatxcs**, the best way to speed up the demise of the human race is to attack the one thing that helps sustain and enhance human populations — our food supply.

According to these fanatxcs, if you rid the planet of neonicotinoid insecticides, the desired result will be lower food crop production since uncontrolled damaging pests will reduce crop yields.

This, in turn, will lead to hunger, starvation, and ultimately death. Prohibition neonicotinoid insecticides will lead to the demise of the human race!

Observers accuse bee conspiracy fanatxcs of depraved indifference and plotting genocide.

LINKS

BEES — Honeybee Colonies & Production Are Thriving In Canada, In America, & Around The World — LINKS

http://pesticidetruths.com/2017/08/28/there-is-no-neonic-crisis-concerns-about-neonicotinoids-are-not-warranted-the-myths-of-bee-colony-collapse-syndrome-honeybee-colonies-production-are-thriving-2017-08-17/

http://pesticidetruths.com/2016/11/11/there-is-no-bee-crisis-honeybee-colonies-production-are-thriving-in-canada-america-themyths-of-bee-colony-collapse-syndrome-neonicotinoid-insecticides-do-not-harm-bees/

http://pesticidetruths.com/2014/02/03/little-wolf-apiaries-walter-zimmerman-bee-hives-thriving-beekeepers-call-for-a-pesticide-ban-ontario-today-cbc-player/

http://pesticidetruths.com/2014/11/05/2014-bee-fraud-awards-ontario-bee-business-booming-but-were-suing-manufacturers-anyhow-peter-dickey-honey-ontario-beekeepers-association/

http://pesticidetruths.com/2013/10/17/28297/

http://pesticidetruths.com/wp-content/uploads/2012/01/Force-Of-Nature-Myth-BUSTING-Bee-Colony-Collapse-Disorder-2013-09-16-Canada's-Honey-Yield-Is-TWICE-The-World's-Average-pdf-300-dpi1.pdf

http://pesticidetruths.com/2014/08/02/the-myths-of-bee-colony-collapse-syndrome-fewer-bees-or-just-more-bee-s-tobaccoringspot-virus-neonicotinoid-insecticides-do-not-harm-bees-dr-elizabeth-m-whelan-american-council/

http://pesticidetruths.com/2014/08/13/neonic-pesticides-were-still-being-used-in-2013-2013-was-lowest-european-bee-loss-recorded-since-2007/

http://www.scribd.com/doc/217858259/April-2014-EU-Bee-Health-Q-and-a-Bees-Thriving-MEMO-14-260-EN-1

BEES — America's Bee Population Is The Highest Its been In Twenty Years — LINKS

http://pesticidetruths.com/2015/11/20/bee-colony-collapse-is-an-environmental-hoax-mr-ezra-levant-honeybee-numbers-at-20-year-high-2015-08-15/

http://www.therebel.media/bee_colony_collapse_is_just

BEES — Historically, Bee Crises Are Nothing New Since Heavy Losses Have Been Reported For A Long Time — LINK

http://pesticidetruths.com/2016/05/17/bee-crises-in-ancient-historical-times-the-first-evidence-for-bee-disappearances-goes-back-centuries-there-is-no-modern-bee-crisis-with-neonicotinoid-insecticides-2014-06-17/

BEES — Simple-Minded Bee Conspiracy Fanatxcs Mock-React To Bee Losses As If They Were The Armenian Genocide — They Regularly Hold Lunatxc Bee Die-Ins Where They Dress Up In Bee Costumes & Lie On The Ground To Be Sprayed By Mock-Insecticide, & Give Mock-Eulogies & Hold Mock-Memorials For Dead Bees — LINKS

http://pesticidetruths.com/2015/08/12/there-is-a-bee-crisis-because-of-the-carnage-of-truck-accidents-the-toxicity-of-linden-trees-simple-minded-bee-conspiracy-fanatics-are-only-crying-crocodile-tears-2015-07-31/

http://pesticidetruths.com/2016/07/02/myth-busting-non-pesticide-reasons-why-bee-keepers-lost-bees-in-2015-2016-bee-keepers-are-harming-their-own-bees-and-not-neonicotinoid-insecticides-there-is-no-bee-crisis/

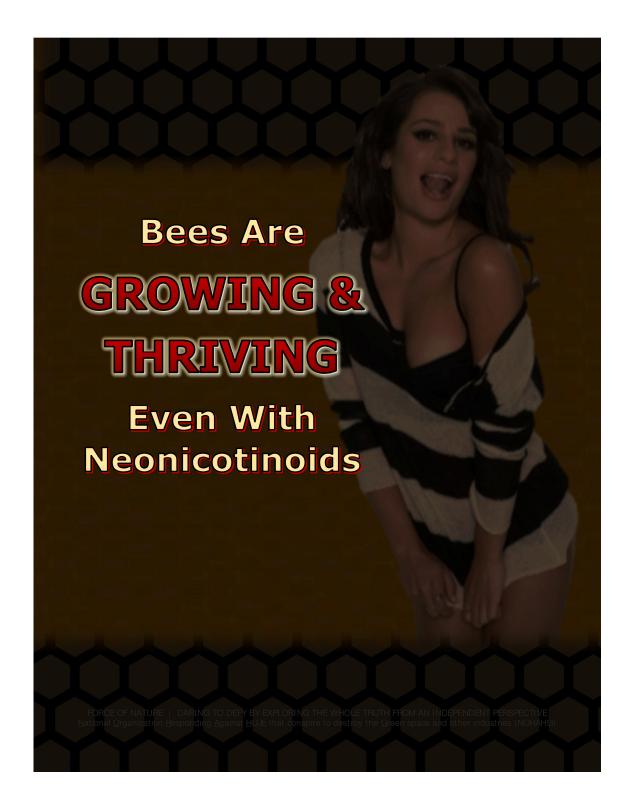
BEES — Bee-Keepers Appear To Be Unable Or Unwilling To Get Their Major Pest Problems Under Control, Such As Varroa Mites, Leading Observers To Conclude That Bee-Keepers May Not Be Competent To Handle Their Businesses, & May Be Wholly Unsuited To Be Raising Bees — LINKS

http://pesticidetruths.com/2013/07/29/bee-keepers-are-harming-bees-and-not-neonicotinoid-insecticides-varroa-mites-are-the-primary-problem-2013-07-09/

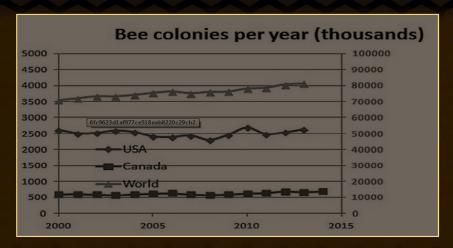
http://pesticidetruths.com/toc/bee-colony-collapse-disorder/

http://pesticidetruths.com/2013/09/23/neonicotinoid-insecticides-are-not-killing-bees-bee-keepers-are-lying-sacks-of-anti-pesticide-cwap-they-are-killing-their-own-bees-randy-oliver-2013-09-02/

http://pesticidetruths.com/2016/07/02/myth-busting-non-pesticide-reasons-why-bee-keepers-lost-bees-in-2015-2016-bee-keepers-are-harming-their-own-bees-and-not-neonicotinoid-insecticides-there-is-no-bee-crisis/





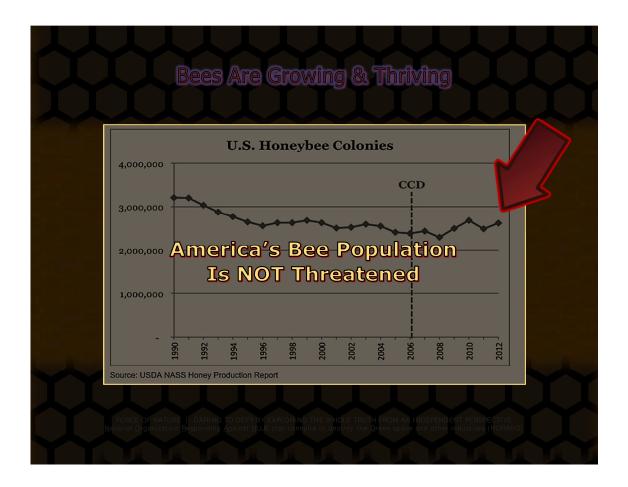


The World-Wide Rise Of Bees

FORCE OF NATURE | DARING TO DEFY BY EXPLORING THE WHOLE TRUTH FROM AN INDEPENDENT PERSPECTIVE National Organization Responding Against HUJE that conspire to destroy the Green space and other industries (NORAHC



http://pesticidetruths.com/2015/11/20/bee-colony-collapse-is-an-environmental-hoax-mr-ezra-levant-honeybee-numbers-at-20-year-high-2015-08-15/



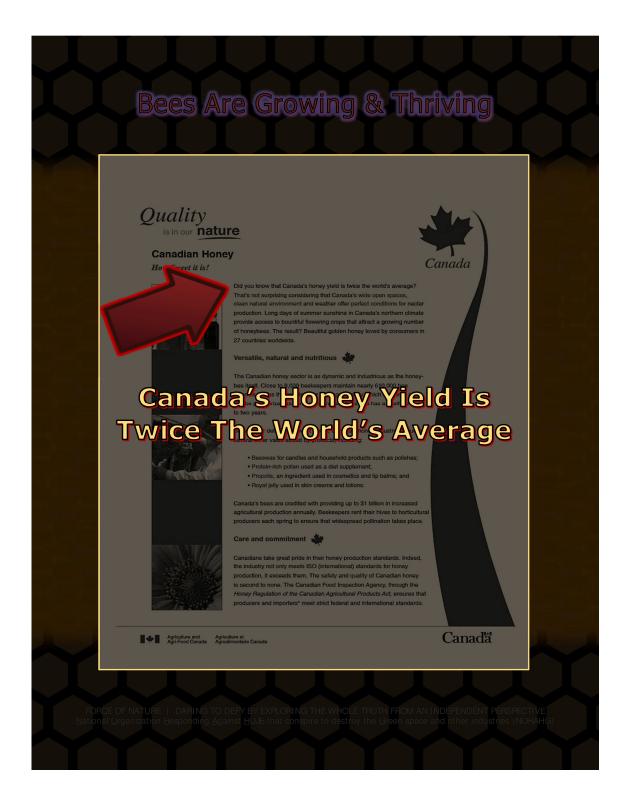
http://pesticidetruths.com/2014/08/02/the-myths-of-bee-colony-collapse-syndrome-fewer-bees-or-just-more-bee-s-tobaccoringspot-virus-neonicotinoid-insecticides-do-not-harm-bees-dr-elizabeth-m-whelan-american-council/



http://pesticidetruths.com/2014/08/02/the-myths-of-bee-colony-collapse-syndrome-fewer-bees-or-just-more-bee-s-tobacco-ringspot-virus-neonicotinoid-insecticides-do-not-harm-bees-dr-elizabeth-m-whelan-american-council/

Bees Are Growing & Thriving								
	Voor	U.S.						
Studies Show	Year	honeybee colonies						
That Bee	2005	2,413,000						
Numbers Are	2006	2,393,000						
	2007	2,443,000						
Not In Decline,	2008	2,342,000 2,498,000						
They Were	2010	2,692,000						
Instead At A	2011	2,491,000						
20-Year High	2012	2,539,000	150					
In 2015	2013	2,640,000						
0_0	2014	2,740,000						
	2015	2,660,000						
FORCE OF NATURE DARING TO DEFY BY EXPLORING THE WHOL National Organization Besponding Against HUJE that conspire to design								

http://pesticidetruths.com/2016/11/11/there-is-no-bee-crisis-honeybee-colonies-production-are-thriving-in-canada-america-the-myths-of-bee-colony-collapse-syndrome-neonicotinoid-insecticides-do-not-harm-bees/





http://pesticidetruths.com/2015/11/20/bee-colony-collapse-is-an-environmental-hoax-mr-ezra-levant-honeybee-numbers-at-20-year-high-2015-08-15/



Background Information

RAINE

Summary & Links

SUMMARY

Listening to Nigel Raine is WRONG!

Raine is the neonicotinoid-hating and fanatxcal-activist-researcher of the University of Guelph, the left-wing pesticide-hating institution in Ontario.

Raine also operates with Canadian Pollination Initiative, a fanat*xcal organization that conspires to impose reckless and arbitrary prohibition against Neonicotinoid Insecticides desperately needed by the Agriculture Industry.

Observers have asserted that Raine and his bee conspiracy fanatxcs have a malicious political agenda against Neonicotinoid Insecticides.

They are NOT TO BE TRUSTED!

They merely exacerbate MORE MADNESS and MORE CONFUSION concerning the REAL reasons for bee losses.

Overall, the REAL causes of bee losses are *Varroa* mites, poor queens, weak colonies, weather conditions, as well as bee-keeper incompetency — Raine and his bee

conspiracy fanatxcs know full well that these are the primary problems associated with bee losses, and NOT insecticides.

There is NO bee crisis caused by insecticides.

But, there is definitely a crisis with the bee-keepers themselves and their incompetent mis-management practices!

Some bee-keepers have been losing their bees over and over again simply because they are incompetent and unskilled — they mis-manage their bees by treating them like agricultural livestock.

Perhaps if Raine were to avoid his BOGUS attempts to link insecticides with bee health, and focus on the REAL causes of bee losses, bee losses will be reduced.

Overall, Raine's so-called links and causes between bee losses and Neonicotinoid Insecticides are mere MYTHS.

There is NO neonicotinoid crisis.

LINKS

RAINE — Blame Neonicotinoids For A Global Epidemic — LINK

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2015-06-30-Blame-Neonicotinoids-For-A-Global-Epidemic-Raine.pdf

RAINE — Tasteless Pesticides Affect Bees In The Field — LINK

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2015-04-2

RAINE — A Re-Statement Of The Natural Science Evidence Base Concerning Neonicotinoid Insecticides And Insect Pollinators — Proceedings Of The Royal Biological Society — LINK

http://pesticidetruths.com/2014/08/09/may-2014-restatement-bees-vs-pesticides-u-of-g-pollinator-research-chair-nigel-raine-weak-evidence-base-bee-decline-overstated/

RAINE — A Re-Statement Of The Natural Science Evidence Base — Royal Biological Society — LINK

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2014-05-21-A-Restatement-Of-The-Natural-Science-Evidence-Base-Royal-Biol-Soc-Raine-et-al-HIGHLIGHTED.pdf

RAINE — A Re-Statement Of The Natural Science Evidence Base — Royal Biological Society — HIGHLIGHTED — LINK

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2014-05-21-A-Restatement-Of-The-Natural-Science-Evidence-Base-Royal-Biol-Soc-Raine-et-al-HIGHLIGHTED.pdf

RAINE — Chronic Impairment Of Bumble Bee Natural Foraging Behaviour — LINK

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2014-07-07-Chronic-Impairment-Of-Bumblebee-Natural-Foraging-Behaviour-Gill-Raine.pdf

RAINE — Role Of Pesticides In Bee Decline — Scientists Call For Debate — LINK

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2014-05-22-Role-of-Pesticides-In-Bee-Decline-Scientists-Call-For-Debate-U-Of-Guelph.pdf

RAINE — Gift Supports Pollinator Health, Sustainable Pest Management — LINK

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2014-05-05-Gift-Supports-Pollinator-Health-Sustainable-Pest-Management-U-Of-Guelph1.pdf

Background Information



Biography & Links

Background Information

Mr Jon Entine's Biography

Mr Jon Entine is among several LEADING EXPERTS who have recognized expertise, training, and background in matters concerning pest control products. http://wp.me/p1jq40-8DV

Mr Entine is an American author and journalist.

Mr Entine is a Senior Research Fellow at the Institute for Food and Agricultural Literacy at the University of California, Davis.

Mr Entine is Founder and Executive Director of the Genetic Literacy Project (GLP), a bio-technology and genetics outreach organization.

The stated purpose of the Genetic Literacy Project (GLP) is to promote public awareness and discussion of bio-technology, evolution, genetics, and science literacy.

Mr Entine's GLP staff produces articles focusing on human genetics as well as on food and farming issues, including genetic engineering, the use and impact of crop protection chemicals, and pollinator health.

Mr Entine's GLP staff also aggregates articles from various published sources.

Mr Entine earned a philosophy degree from Trinity College in Hartford, Connecticut.

Background Information

Mr Jon Entine's Wisdom Can Be Found By Exploring The Following Links ...

ENTINE — WILD BEES DISAPPEARING – ANOTHER MONTH, ANOTHER BUNGLED STUDY (Reference)

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2016-01-05-Wild-Bees-Disappearing-Another-Month-Another-Bungled-Study-Entine.pdf

ENTINE — ANOTHER BUNGLED CORRELATION STUDY (Reference)

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2015-11-01-Another-Bungled-Correlation-Study-Entine.pdf

ENTINE — ANTI-NEONIC NARRATIVE REFOCUSES ON WILD BEES (Reference)

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2015-07-16-Anti-Neonic-Narrative-Refocuses-On-Wild-Bees-Entine.pdf

ENTINE — CHENSHENG LU — BEE EXPERTS DISMANTLE HARVARD STUDY AS ACTIVIST SCIENCE — NORAHG RESPONSE (Reference)

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2014-12-13-Chensheng-Lu-Bee-Experts-Dismantle-Harvard-Study-As-Activist-Science-Entine-NORAHG-RESPONSE.pdf

ENTINE — CHENSHENG LU — BEE DEATHS MYSTERY SOLVED — NEONICS MAY ACTUALLY HELP BEE HEALTH (Reference)

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2014-11-20-Chensheng-Lu-Bee-Deaths-Mystery-Solved-Neonics-May-Actually-Help-Bee-Health-Entine.pdf

ENTINE — CHENSHENG LU — BEE DEATHS & COLONY COLLAPSE DISORDER — FLAWED HARVARD STUDIES ENDANGER BEES (Reference)

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2014-11-20-Chensheng-Lu-Bee-Deaths-CCD-Flawed-Harvard-Studies-Endanger-Bees-Entine.pdf

ENTINE — EUROPEAN UNION — BEE DEATHS REVERSAL — PRESSURE BUILDS TO RETHINK EU BAN — FORBES (Reference)

http://pesticidetruths.com/wp-content/uploads/2014/08/Reference-PCP-Bees-2014-02-05-Bee-Deaths-Reversal-Pressure-Builds-To-Rethink-EU-Ban-Forbes.pdf

ENTINE — IS IT SAFE TO PLAY YET ?!?! — HOW CHEMOPHOBIA THREATENS PUBLIC HEALTH — DR ELIZABETH M WHELAN — DR JOSH BLOOM — DR GILBERT ROSS (Report)

http://pesticidetruths.com/wp-content/uploads/2011/12/Force-Of-Nature-The-Wisdom-of-Whelan-ACSH-2012-03-14-Is-It-Safe-To-Play-Yet-pdf-300-dpi.pdf



WE SPEAK THE WHOLE TRUTH ABOUT BEE-KEEPERS FROM AN INDEPENDENT PERSPECTIVE!

We are the National Organization Responding Against HUJE that conspire to destroy the Green space and other industries (NORAHG). As a non-profit and independent organization, we are environmentalists who are dedicated to reporting about truth-challenged pesticide-hating bee-conspiracy-fanatxcs (HUJE) who conspire to destroy businesses that are dependent on the use of safe and effective conventional pest control products. We also report on the work of several highly-rated leading experts who have recognized expertise, training, and background in matters concerning pest

control products, and who promote environmental realism and pesticide truths.

Not surprisingly, bee-conspiracy-fanatxcs have demonstrated that they are incapable of processing overwhelming scientific evidence. Should we trust these fanatxcs, who conveniently ignore scientific evidence, and attempt to impose their politicized-doctrines and twisted life-style choices against our society ?!?!

NORAHG was the brainchild of Mr William H Gathercole and his colleagues in 1991. Mr Gathercole is now retired, although his name continues to appear as founder. We dare to defy the pesticide-hating fanatxcs by exploring the whole truth from an independent perspective on The Pesticide Truths Web-Site ... http://pesticidetruths.com/ If you wish to receive free reports on issues that concern you, please contact us at ... force.of.de.nature@gmail.com/ WILLIAM H GATHERCOLE AND NORAH G

√ FACT — If You Do Not Vote Conservative, Then You Are A Pitiful Fool & An Imbecile

√ FACT — With A Scheer Conservative Victory In The 2019 Canadian Federal Election, There Will Be NO National Prohibition Against Pest Control Products — LINK

http://pesticidetruths.com/2017/06/02/the-industry-must-support-scheers-conservatives-now-the-library-of-national-prohibition-conspiracies-2017-05-27/

√ FACT — The Fanatxcal Trudeau Liberal Government Is Bat-Shxt Crazy — LINK

http://pesticidetruths.com/2017/06/08/enviro-terr%D0%B6r-never-ends-fanat%D0%B6cal-trudeau-liberal-government-is-bat-sh%D0%B6t-crazy-the-suzuki-alliance-golf-industry-the-library-of-terr%D0%B6rism-that-will/

√ FACT — The Trump Administration Ends The US EPA's Reigns Of Terrxr — LINK

http://pesticidetruths.com/2017/07/02/u-s-a-the-era-of-trump-dismantling-the-alarmism-industry-the-end-of-u-s-agencies-reigns-of-terr%d0%b6r-environmental-protection-agency-epa-drain-the-swamp/



	-	