



What's Up with Glyphosate?

Integrated Vegetation Management Association of BC

Darell Pack, Director, Provincial Regulatory Affairs and Stakeholder Relations
November 24, 2020

Representing the Canadian developers, manufacturers and distributors of pest control products and products of modern plant breeding.



CropLife Canada goals

- Increase awareness, understanding, and acceptance of the benefits, safety and sustainability of plant science innovations
- Secure legislation, regulation, and policy that encourage science and industry innovation
- Be world leaders in lifecycle stewardship of pest control products and plant biotechnology traits
- Forge and lead alliances with stakeholder groups to help achieve the industry's vision and sound public policy

Fracturing of Traditional Media and the Growth of #fakenews

- Traditional media has been decimated
- Old models of delivering and consuming news have been turned upside down
- New model – niche, customized, online news, delivered 24/7 in rapid fire
- Fake news stories are rampant with little to no fact checking
- Activist groups deliver their messages cheaply and efficiently via targeted advertising on social media

Stop The Spray B.C.

Information on herbicide spraying in BC's Central Interior



[The Issue](#) [Effects on Wildlife](#) [Ecological Conversion](#) [Benefits of Aspen and Birch](#) [Aspen as a Resource](#) [Questionable Productivity](#)

[Why do we Spray?](#) [The Bigger Picture](#) [About](#)

The Issue

- [Pledge for Candidates in 2020 BC Election](#)
- [Help us raise money for our bumper stickers and future presentation tour on Go Fund Me](#)
- [Video on Aspen and Bobtail Forest Fire of 2015](#)
- For media!
- [Standing Press Release](#)

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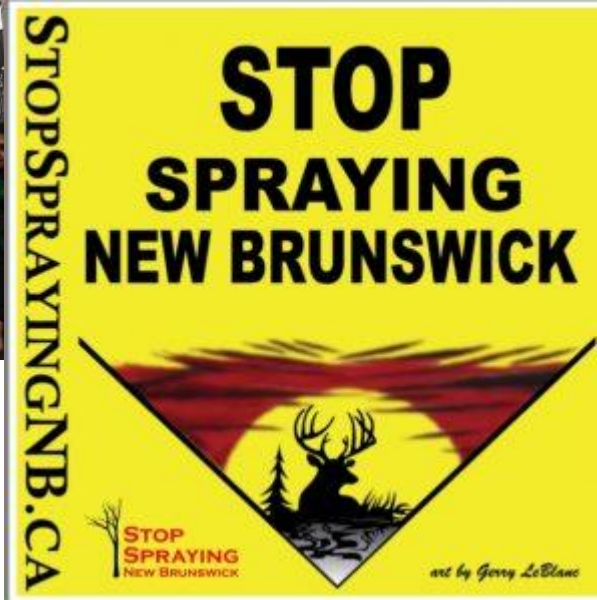
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dreamstime.com

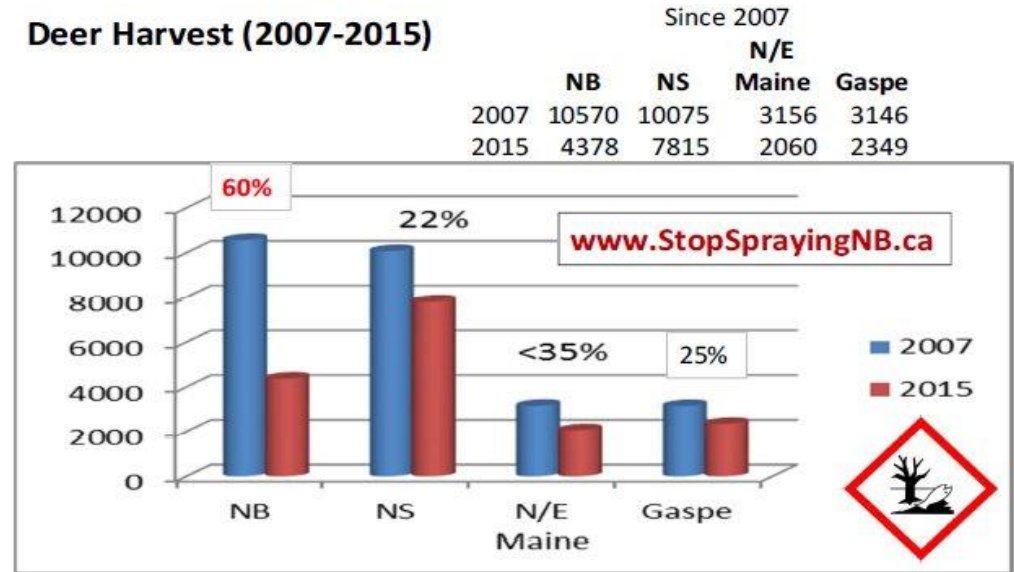


Glyphosate –

Cue the Outrage....



Deer Harvest (2007-2015)

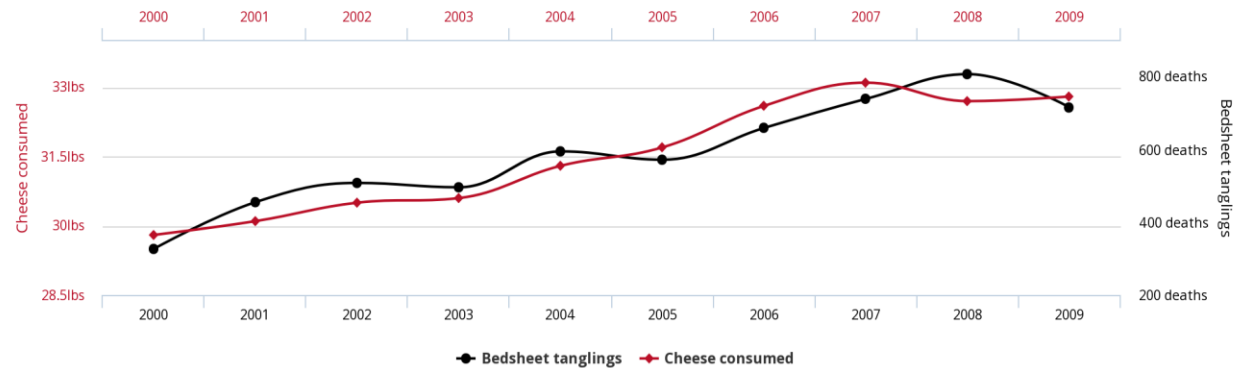


all information sourced from regional Government Natural Resources authorities

Per capita cheese consumption

correlates with

Number of people who died by becoming tangled in their bedsheets



Glyphosate – IARC

*What's goin'
on...*

*How we got
here...*

International Agency Research on Cancer



- IARC is the International Agency for Research on Cancer
- The Monographs that IARC produces are “*an exercise in evaluating cancer hazards*”
- 2015: IARC placed glyphosate in its Group 2A: Probable human carcinogen

Glyphosate – IARC

What's goin' on...

- *IARC classifies substances into one of five hazard-based categories:*
 - *Group 1: Known human carcinogen*
 - *Group 2A: Probable human carcinogen*
 - *Group 2B: Possible human carcinogen*
 - *Group 3: Not classifiable*
 - *Group 4: Probably not a human carcinogen*

Glyphosate - IARC

Some of the substances that have been classified in groups 1 and 2:

<u>Group 1</u>	<u>Group 2A</u>	<u>Group 2B</u>
Asbestos Aflotoxins Tamoxifen Alcoholic Beverages Processed meats	Chloramphenicol Red Meat Shift Work Emissions from frying Glyphosate	Caffeic acid Bracken Fern Coffee

- *Group 1: Known human carcinogen*
- *Group 2A: Probable human carcinogen*
- *Group 2B: Possible human carcinogen*

HAZARD VS. RISK

IARC recently began reviewing pesticides for carcinogenicity. But where IARC assesses potential cancer hazards, regulatory agencies around the world assess cancer risks. In light of this, it's important to understand the difference between hazard and risk.

HAZARD

Something with the potential to cause harm.



DRIVING ON A ROAD



SHAVING YOUR FACE



USING A BLOW DRYER

VS.

RISK

The chance you will be harmed.



DRIVING IN A BLIZZARD.



SHAVING A BEAR



USING IT IN THE TUB

Glyphosate –

“Very
superstitious...
”

What did PMRA
have to say
about IARC
finding?

“The World Health Organization's (WHO) International Agency for Research on Cancer (IARC) recently assigned a hazard classification for glyphosate as "probably carcinogenic to humans". It is important to note that a hazard classification is not a health risk assessment. The level of human exposure, which determines the actual risk, was not taken into account by WHO (IARC). Pesticides are registered for use in Canada only if the level of exposure to Canadians does not cause any harmful effects, including cancer”

Glyphosate – Some Facts

- Used for more than 40 years
- A well-established safety record.
- Widely adopted by Canadian farmers because of its effectiveness in controlling weeds.
- Used by farmers around the world to prevent weeds from stealing water, nutrients and sunlight from food crops.
- An important tool for the weed management in forests and urban spaces.

Glyphosate –

And more facts



Health
Canada

Santé
Canada



All came to the same conclusion:

**This product does not increase the risk of cancer
when used as intended.**

Other supporting decisions/studies:

National Institutes of Health (NIH)
European Chemicals Agency (ECHA)
Japan
Australia
Korea
Switzerland



https://content.geneticliteracyproject.org/wp-content/uploads/2019/03/GlyphosateInfographic_GLP.pdf

Glyphosate – and even more facts

“An evaluation of available scientific information found that products containing glyphosate do not present risks of concern to human health or the environment when used according to the revised label directions.” – PMRA

“glyphosate is not likely to be carcinogenic to humans”. - EPA

“The Commission considers that there are neither scientific nor legal grounds to justify a ban of glyphosate, and will not make a legislative proposal to that effect. In particular, the scientific evidence does not support the conclusion that glyphosate has the potential to cause cancer”. – European Commission

Glyphosate – Food Safety

- February 2017 Canadian Food Inspection Agency report on glyphosate levels in barley, bean (including chickpea), lentil, pea, soybean, wheat and a sample of other products.
 - Overall compliance rate for these surveys, based on Canadian Maximum Residue Limits (MRL), was 98.7 %.
 - No samples of fruits and vegetables, soy products, or infant foods were found to contain residues exceeding Canadian limits.
 - Most samples found with levels of residues exceeding Canadian limits were predominantly associated with grain products.

Glyphosate – Food Safety

- It is possible to detect glyphosate residues in foodstuffs.
- Just because something is “detected,” doesn’t mean it’s dangerous.



Switzerland: 655 kg of bread produced with the most "loaded" wheat with glyphosate residues would have to be ingested **daily** to reach the acceptable daily intake

Glyphosate – Food Safety



“...a 75-pound child would need to consume 145,000 eight-ounce servings of Ben & Jerry’s Chocolate Fudge Brownie ice cream (the flavor found to contain the most glyphosate) every day to hit the EPA’s safety limit. For adults, the number of servings jumps to 290,000...”

The Law Suits...

The New York Times

Roundup Maker to Pay \$10 Billion to Settle Cancer Suits

Bayer faced tens of thousands of claims linking the weedkiller to cases of non-Hodgkin's lymphoma. Some of the money is set aside for future cases.



[Home](#) > [Industries](#) > [Chemicals](#) > [Associated Press](#)

Associated Press

California can't require cancer label on Roundup weed-killer, judge rules

Published: June 22, 2020 at 11:43 p.m. ET

By [Associated Press](#)

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In permanent injunction, federal judge says state can't prove cancer link





Learn About The *Johnson* Appeal

Click Here

<http://www.glyphosatelitigationfacts.com/main/>



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Research and Safety Record

*Let's Talk About
Glyphosate*



www.bayer.com/en/glyphosate/glyphosate-roundup

SUSTAINABLE OLD GROWTH HARVEST SUPPORTS B.C. JOBS

FORESTED LAND BASE
57,200,000 HA

**AMOUNT OF OLD
GROWTH HARVESTED
ANNUALLY**
50,000 HA

FOR EVERY  HARVESTED,
 ARE PLANTED

OLD GROWTH
HARVEST SUPPORTS
38,000 JOBS



SOURCES:
B.C. Government data 2014-2018
PwC 2019 (Direct and indirect jobs)

Some simple facts...

BC forests

- BC is recognized as a global leader in sustainable forest management
 - soil conservation
 - sustainable reforestation
 - protection of riparian areas, fish and fish habitat, watersheds, biodiversity and wildlife
- Herbicide use (typically glyphosate) is often the most cost effective, efficient and reliable method to regenerate conifer plantations, and can reduce certain worker health risks including physical injury from equipment
- Each regeneration area is typically sprayed only once (at most twice) in a 40 to 80 year rotation period from planting to harvest.



Plant Science 101

Health and Safety

Facts & Figures

Expert Views

Policy priorities

Glyphosate Safety

While questions persist about the safety of glyphosate and whether or not it causes cancer, the reality is that glyphosate is among the most studied pesticides in the world and is one of the safest herbicides ever developed. Learn more about the safety of glyphosate with these quick facts, figures and statistics.



What's the story with glyphosate?

Farmers around the world have been using the [herbicide glyphosate](#), often referred to as Roundup, for more than 40 years. It is a tool that has helped revolutionize farming by allowing farmers to control weeds without having to till the soil. It is among the most thoroughly studied pesticides in the world and has one of the best safety profiles of any [herbicide](#) ever developed.

There has been a lot of misinformation out there about glyphosate – so here are the facts.

<https://croplife.ca/facts-figures/glyphosate-safety/>

40+

years is how long glyphosate has been on the market. It is one of the safest and most effective herbicides ever developed. [Glyphosate has a lower toxicity](#) than many commonly consumed items in our daily lives including table salt, caffeine, vanilla and vitamin D3.

800+

rigorous studies submitted to regulators around the world confirm that glyphosate-based herbicides, including Roundup, are safe when used as directed.

160

[regulatory agencies](#) around the world agree glyphosate is safe when used according to label directions.

In 2017

the [U.S. Environmental Protection Agency](#) said that 'Human health risks assessment concludes that glyphosate is not likely to be carcinogenic to humans...[and there are] no other meaningful risks to human health when the product is used according to the pesticide label'.

50,000+

licensed pesticide applicators, the people with the greatest potential exposure to pesticides, were followed for more than 20 years and there was no association found between glyphosate-based herbicide use and cancer, according to the [National Cancer Institute-supported Agricultural Health Study](#).

Why does this
matter?

Are we adding to or
losing tools from our
toolbox?



Farming Minister admits neonics ban has increased pesticide use

News 11 Dec 2018 **Abi Kay**

Farming Minister George Eustice has admitted the recent ban on neonicotinoids has actually increased overall pesticide use.



Abi Kay

Abi took up the post of chief reporter at Farmers Guardian after a stint working for the NFU as part of its government affairs team.

[Load More...](#)





Thank You!

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