

re: roundup

SANDY BOATES <[REDACTED]>

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To:VoP Admin <admin@pemberton.ca>

[REDACTED]
Dear Mayor, Council and City,
re: Roundup is poison 2024 (sent to newspapers across Canada)

Letter to the editor
ROUNDUP IS POISON
(Rounding up the Roundup)

The active ingredient in Roundup is glyphosate. It's been called the 'DDT of this century', and it is. Vancouver, Quebec and Montreal have banned the use of glyphosate as well as other cities and countries around the world. This includes Mexico, Germany and France. And to note, Bayer of Germany, was the company that bought out Monsanto, the owner of Roundup.

Glyphosate could have been 'safe' if it weren't for its off target effects, as like our medicine usually has side effects. Its mechanism of action is to shut down the shikimate pathway in plants which makes some of the essential amino acids, the building blocks of protein. Without these amino acids to make proteins, the plant dies. Human cells do not contain the shikimate pathway, hence 'safe' for humans. This pathway only exists in plants, and in fungi and bacteria that live in the soil and in our intestinal tract. The fungi, bacteria and other microbes in the soil make nutrients available to plant roots, which makes them strong, healthy and nutrient dense, to resist pests and disease naturally. The beneficial microbes in our gut do the same for us and determines human health. Glyphosate, being an antibiotic, as stated on the original patent, is antimicrobial, which means that it kills the beneficial microbes in the soil and in our gut.

Farmers use glyphosate as a weed killer, and a drying agent for grains and beans just before harvest. Then there are GMO seeds and produce, that are designed to survive the direct spray of this toxic chemical. Glyphosate can be absorbed through the leaves of these plants, so it can't be washed off. We are all consuming residues of glyphosate in our food. It seems to be in almost everything, wine, honey, boxed cereal, tampons and cotton sheets. GMO produce is in our grocery stores un-labelled.

Glyphosate causes organ damage in livestock, kidney disease in agricultural workers, disrupts hormones and reproduction, has neurological impacts on children, and causes cancer. It is able to break open the tight junctions in our gut membrane as well as other membranes, such as the kidney tubules, blood vessels and the blood brain barrier. In the intestinal tract, some of the contents there are able to seep through the gut barrier and into the blood stream. Each time this happens, the immune system gets turned on which causes chronic inflammation, of said to be the root cause of disease. Glyphosate harms bees, butterflies, deer and other wildlife. Currently there are class action lawsuits in Canada and the United States against Bayer, for the toxic effects of glyphosate by home gardeners, farmworkers and landscapers. It would be best to contact the head office of your grocery store to label GMO produce and to email the city, mayor and council to ban the use of Roundup. We all need to find natural alternatives for everything we do. Canada should be 'all organic'. Healthy soil is a carbon sink.

Sandy Boates
Vernon, BC

Dear Mayor, Council and city,
Roundup is poison. Its active ingredient is glyphosate. It's been called the 'DDT of this century', and it is. Vancouver, Quebec and Montreal have banned the use of glyphosate. Glyphosate and other toxic chemicals need to be banned here, as well as in every other city and province across Canada.

The regulatory agencies still allow the use of glyphosate and other toxic chemicals (see regulatory capture below).

They do not have the right to pollute our environment and our food with these chemicals, poisoning us, bees, our children, our pets and wild animals. They don't have the right to destroy biology and take that away from future generations. Where, when and with who does this begin? It is time for independent thought and action. Please review what I have sent to you. This information has been sent to schools and newspapers across Canada.

Sandy Boates
Vernon, BC

[REDACTED]
Toxic Free Okanagan

The right to clean air, water, soil and food.

The need to find natural alternatives for everything we do.

Canada should be 'all organic'. Chemical agriculture kills the life in the soil... it makes dead soil... can't grow food... the right to food security.

Healthy soil is a carbon sink.

Please share this information with nearby towns and cities.
More information of this is posted on my facebook page, Vernon, BC.

1. CITIES THAT HAVE BANNED GLYPHOSATE:

- Vancouver banned private and public use of glyphosate, except for invasive weeds
 - Quebec has banned the use of glyphosate in forest management, is attempting to prohibit its use altogether, while the city of Vancouver, British Columbia has enacted a total ban in public parks and outdoor gardens.
 - The sale of weed killers containing glyphosate like Roundup has been banned in Montreal since Jan. 1, 2022, but a Radio-Canada investigation found Roundup still on the shelves at seven Rona outlets. Mar 21, 2022
 - Laval bans weed killer found in Roundup, Apr 14, 2021 — A suburb north of Montreal has banned the use of glyphosate, the active ingredient in weed killer Roundup.
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2. Where is Glyphosate Banned?

<https://www.wisnerbaum.com/toxic-tort-law/monsanto-roundup-lawsuit/where-is-glyphosate-banned/#:~:text=In%20December%20of%2020>

This site lists the countries that have banned or are working towards a ban on glyphosate, or have restricted the use of it

- Australia is using steam technology for weed control
 - Czech Republic has banned glyphosate as a weed killer and drying agent
 - Denmark banned glyphosate on crops to avoid residues on foods
 - El Salvador, glyphosate is linked to deadly kidney disease
 - Italy banned glyphosate as a preharvest treatment
 - Luxembourg 100% ban on glyphosate
 - Mexico is phasing out glyphosate by 2024
 - in December of 2019, France's ANCES agency decided that 36 glyphosate-based products will be withdrawn from the market and no longer be permitted for use by the end of 2020
 - Germany's cabinet passed legislation in February of 2021 to ban glyphosate by 2024.
 - The president of the Portuguese Medical Association has called for a worldwide ban of glyphosate (cities zero pesticide policy)
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3. Do Canadian Oats Contain Roundup? - Top Class Actions

<https://topclassactions.com/canada/roundup/do-canadian-oats-contain-roundup/#:~:text=Canadian%20oats%20and%20other%20cereal>

Are Canadian oats sprayed with glyphosate?

Why is Glyphosate in Canadian Oats at All? Glyphosate is the most commonly used herbicide among Canadian farmers. While it is primarily deployed for weed control, glyphosate is also used to dry grain and bean crops prior to harvest. Jan 30, 2020

- in Canada farmers use the herbicide glyphosate for weed control and to dry grains and bean crops prior to harvest, barley, wheat, kamut, spelt, legumes (chick peas, lentils, peas), soybeans (glyphosate residue)
 - toxicologist Alexis Temkin comments on glyphosate contamination, 'Glyphosate should not be in any foods at all, particularly those fed to children'
 - documents, 2017, Monsanto colluded with the EPA to conceal evidence of glyphosate carcinogenicity, Monsanto's own research on glyphosate safety
 - A number of lawsuits filed across Canada by cancer victims claiming their disease was caused by glyphosate exposure. Cases are currently pending in Quebec, Ontario, Manitoba, Alberta and British Columbia. As of November, at least 360 Canadians had filed suits against Bayer. A Toronto law firm has also filed a \$500 million class action on behalf of 60 plaintiffs. Lawsuits for farm workers, landscapers, home gardeners with diagnosis of Non-Hodgkin's Lymphoma, Leukemia, Multiple Myeloma, B-Cell Lymphoma, Bone Cancer, Renal Cell Carcinoma (kidney cancer), Skin Tumors, Pancreatic Islet Cell Tumors, Chromosomal Damage, DNA Damage
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4. Canadian Association of Physicians for the Environment (cape.ca)

'Let's Protect Alberta Kids from Toxic Pesticides - CAPE'

Canadian Association of Physicians for the Environment

<https://cape.ca> › lets-protect-alberta-kids-from-toxic-p...

Mar 19, 2019 — Children in Alberta are among the unluckiest in Canada when it comes to exposure to pesticides. CAPE doctors are speaking out to help protect ...

<https://cape.ca/lets-protect-alberta-kids-from-toxic-pesticides/>

- ban pesticides on lawns, gardens, green spaces, sport fields
- 2,4-D, mecoprop, dicamba, glyphosate
- neurological impacts on children, different types of cancer in adults
- enact a by law prohibiting the use of toxic pesticides

5. Mom's Across America 'GMO's and Glyphosate or a Bankrupt America'

https://www.momsacrossamerica.com/gmos_and_glyphosate_or_a_bankrupt_america

- 80% of our food contains GMO's which is repeatedly sprayed with Roundup as they grow
- non GMO crops, wheat, sugar, quinoa, dry peas and beans are sprayed with glyphosate as a drying agent (desiccant) during harvest
- increase use of glyphosate and GMO'S since the late 1990's
- glyphosate was originally patented as an antibiotic, it is anti-microbial
- glyphosate damages the beneficial gut bacteria which impairs the ability to produce tryptophan and insulin (tryptophan produces serotonin)
- glyphosate, organ damage and cancer in humans
- GMO's cause organ damage in animal studies without added pesticides or herbicides
- solution: label GMO foods, government to ban the use of glyphosate and Roundup, stores to stop selling glyphosate products

6. Petition to Ban Glyphosate

<https://petitions.ourcommons.ca/en/Petition/Details?Petition=e-4127>

Does Canada still use glyphosate?

Sep 15, 2022, It's time to ban glyphosate: a call to action to Canadians and residents ...

foecanada.org (Friends of the Earth)

Glyphosate is Canada's most widely sold pesticide – used in agriculture as an herbicide and to kill crops for harvest, in forestry to kill unwanted target trees and vegetation, and as an herbicide on rights-of-way, commercial and residential grounds, golf courses, schools and other landscapes. Sep 15, 2022

Preview of the Petition to Ban Glyphosate – help build a glyphosate-free future in Canada

E-petition to Minister of Health

Whereas:

Glyphosate is Canada's most widely sold pesticide – used in agriculture as an herbicide and to kill crops for harvest, in forestry to kill unwanted target trees and vegetation, and as an herbicide on rights-of-way, commercial and residential grounds, golf courses, schools and other landscapes.

The result is residents of Canada, including infants and children, consume glyphosate residues in their food and water and are exposed to it while outdoors for recreation, occupational activities, hunting and harvesting.

The use of glyphosate harms aquatic and terrestrial species and causes loss of biodiversity thereby making ecosystems more vulnerable to pollution and climate change. It endangers pollinators including wild bees and monarch butterflies and exacerbates wildfires since conifer-only forests burn faster and hotter than mixed forests. In 2015, the World Health Organization's International Agency for Research on Cancer classified glyphosate as "probably carcinogenic to humans".

Glyphosate has been found to cause injuries to human health including harming cellular function and causing reproductive effects, hormone disruption, microbiome disruption and cancer.

The Pest Control Products Act is referred to Parliament for review and Health Canada is conducting a transformation of the Pest Management Regulatory Agency.

We, the undersigned residents of Canada, call upon the Minister of Health to:

- Ban the sale and use of glyphosate to protect human health and the environment; and
- Develop a comprehensive plan to reduce overall pesticide use in Canada.

Glyphosate is unavoidable, brought to you by Monsanto (owned by Bayer) and friends.

Whether you want it or not, glyphosate is in your water, in much of the food you eat, in the soils growing that food, in forests, rivers and streams, and in wildlife.

The science is clear to us that glyphosate is harming our health and the environment, but pesticide regulators are still "monitoring" the science and refusing to take action.

Petition groups, Ontario:

Safe Food Matters

Friends of the Earth

Prevent Cancer Now

You can still watch for free "Into the Weeds", on CBC's Passionate Eye.

It follows Dewayne "Lee" Johnson, a former groundskeeper who takes on Bayer, a multinational agrochemical corporation after diagnosis of a terminal cancer linked to his exposure to Roundup.

7. Wisner Baum, Law Monsanto Roundup Lawsuit

Where is Glyphosate Banned? ***Updated May 2023

<https://www.wisnerbaum.com/toxic-tort-law/monsanto-roundup-lawsuit/where-is-glyphosate-banned-/#:~:text=Portugal%3A%20Prohibits%2>

Vancouver has banned private and public use of glyphosate, aside from the treatment of invasive weeds.

Germany: Germany's cabinet passed legislation in February of 2021 to ban glyphosate by 2024. German farmers will need to reduce the use of glyphosate until the ban takes effect in 2024. Certain retail stores in Germany have already pulled glyphosate-based herbicides like Roundup from shelves.

Luxembourg: The country will become the first in the EU to completely ban all products containing glyphosate.

Mexico: In June of 2020, Mexico's Environment Ministry announced that the country will phase out glyphosate by 2024, citing human health and environmental concerns. In April of 2021, a judge ruled in Bayer's favor in a court challenge of the government's glyphosate ban proposal. Bayer's win was temporary because in October of 2021, Mexico's Supreme Court denied four appeals of the proposed ban from major agrichemical corporations. The ruling affirmed the country's glyphosate ban.

Bahrain: According to Oman's Ministry of Agriculture, Bahrain and five other countries in the Gulf Cooperation Council (GCC) have banned glyphosate.

Netherlands: Banned all non-commercial use of glyphosate.

Oman: Eng Saleh al Abri, director general of agricultural development in Oman's Ministry of Agriculture and Fisheries (MoAF), told a reporter that glyphosate "hasn't been available in Oman since 2016." Eng Abri added, "This active ingredient has been banned throughout the GCC (Gulf Cooperation Council) since last year." In addition to Oman, the GCC includes Saudi Arabia, Qatar, Kuwait, Bahrain, and the United Arab Emirates (UAE).

Portugal: Prohibits the use of glyphosate in all public spaces. The president of the Portuguese Medical Association has also called for a worldwide ban of glyphosate.

Qatar: According to Oman's Ministry of Agriculture, Qatar and five other countries in the Gulf Cooperation Council (GCC) have banned glyphosate.

Saudi Arabia: Issued a glyphosate ban along with five other countries in the Gulf Cooperation Council (GCC).

Scotland: Aberdeen cut back its use of herbicides and Edinburgh's City Council voted to phase out glyphosate. In November of 2017, five of Scotland's six EU parliamentarians voted in favor of a motion that would phase out glyphosate by 2022.

Spain: According to Kistiñe Garcia of the Spanish NGO, Ecologistas en Acción, Barcelona, Madrid, Zaragoza and the region of Extremadura have decided to ban glyphosate. The regions of La Rioja (major Spanish wine region) and Aragon have also approved motions against endocrine-disrupting chemicals, which includes glyphosate.

United Arab Emirates: Issued a glyphosate ban along with five other countries in the Gulf Cooperation Council.

8. ScienceDirect Review: Feed residues of glyphosate, livestock

[https://www.sciencedirect.com/science/article/pii](https://www.sciencedirect.com/science/article/pii/S1751731120300264)

<https://www.sciencedirect.com/science/article/pii/S1751731120300264>

Glyphosate is the active ingredient in a wide range of herbicides used for weed control, including weed control in genetically modified, glyphosate-insensitive crops. In addition, glyphosate herbicides are used for pre-harvest desiccation of glyphosate-sensitive crops. Together, the use of glyphosate leads to residues in livestock feed. In addition to its herbicidal property, glyphosate has documented antimicrobial and mineral-chelating properties. whether dietary glyphosate residues may affect livestock gut microbiota and/or mineral status potentially with derived unfavourable effects on animal health and productivity.

9. Oregon State University: What are the symptoms of glyphosate poisoning in cattle? Signs of Toxicity - Animals

<http://npic.orst.edu/factsheets/archive/glyphotech.html#:~:text=Signs%20of%20Toxicity%20-%20Animals,hypersalivation>

Glyphosate Technical Fact Sheet

Animals exposed to formulated glyphosate herbicides have displayed anorexia, lethargy, hypersalivation, vomiting, and diarrhea.

Target Organisms

In plants, glyphosate disrupts the shikimic acid pathway through inhibition of the enzyme 5-enolpyruvylshikimate-3-phosphate (EPSP) synthase. The resulting deficiency in EPSP production leads to reductions in aromatic amino acids that are vital for protein synthesis and plant growth.^{1,4}

Glyphosate is absorbed across the leaves and stems of plants and is translocated throughout the plant.^{1,3} It concentrates in the meristem tissue.¹⁰

Plants exposed to glyphosate display stunted growth, loss of green coloration, leaf wrinkling or malformation, and tissue death. Death of the plant may take from 4 to 20 days to occur.^{4,10}

The sodium salt of glyphosate can act as a plant growth regulator and accelerate ripening of specific crops.

10. SAFE FOOD MATTERS GOES BACK TO COURT JUNE 13 WITH HEALTH CANADA ON GLYPHOSATE

<https://safefoodmatters.org/tag/glyphosate/>

<https://safefoodmatters.org/2023/06/08/safe-food-matters-goes-back-to-court-with-health-canada-on-glyphosate/>

So what's going on? (copied from the site)

THEORY OF REGULATORY CAPTURE

Canadian scholars have recently written on the phenomenon of "regulatory capture". The article, published in *Toxics*, makes the case that PMRA's evaluation of glyphosate was deficient, as a result of the "scientific and

regulatory captures of relevant Canadian agencies by the pesticide industry”. The effect of the capture is PMRA “promotes commercial interests over the imperatives of public health and environmental protection”.

The authors point out three strategies used in regulatory capture:

Corporate shaping of the scientific narrative;

Hiding the risks of a product; and

Creating a long-lasting and close “intimate” relationship with regulatory agencies.

All three of these strategies are present in PMRA’s evaluation of glyphosate and its treatment of our objections.

The “Monsanto Papers” formed part of the glyphosate evaluation by PMRA. PMRA itself admits in its glyphosate final decision that it prefers industry studies over published scientific literature.

The PMRA did not examine the risks of the product, Roundup, but only the “active ingredient” glyphosate, which allowed PMRA to ignore all sorts of science showing the entire product is more dangerous than glyphosate itself.

Third, there is a close and intimate relationship between PMRA and industry.

We will bring evidence of this close relationship on June 13. Canada’s lobby registry shows extensive contacts between senior PMRA staff and Bayer/Monsanto, as well as their agent CropLife. CropLife annual reports describe in detail their efforts to influence PMRA. LinkedIn profiles show that a significant number of CropLife senior employees were previously employed by Health Canada, CFIA, Agriculture and Agri-Food Canada, among other federal government positions.

11. Alternatives to Pesticides, City of Chilliwack, BC

www.chilliwack.com/pesticidefree

Port Moody, BC: has banned the use of all pesticides on public and private lands since 2003.

Mission, BC: does not use glyphosate in the management of their parks or municipal forest, which constitutes about 50% of the City’s area.

Coldstream, BC: does not use Roundup in their weed control program.

Invermere, BC: banned Roundup several years ago.

White Rock, BC: We have a bylaw in place and on our website and the use of glyphosate (RoundUp) is not permitted for cosmetic purposes.

<https://www.whiterockcity.ca/202/Cosmetic-Pesticide-Use-Bylaw>

Burnaby, B.C.: Apr 8, 2009 — Cosmetic pesticide use in the City of Burnaby, B.C. has officially been banned and is now officially pesticide-free.

12. Glyphosate Technical Fact Sheet

Oregon State University

<http://npic.orst.edu/factsheets/archive/glyphotech.html#:~:text=Glyphosate%20is%20absorbed%20across%20the,its%20t>

Glyphosate is absorbed across the leaves and stems of plants and is translocated throughout the plant. It concentrates in the meristem tissue. Plants exposed to glyphosate display stunted growth, loss of green coloration, leaf wrinkling or malformation, and tissue death.

13. Using Glyphosate - Department for Environment and Water

Department for Environment and Water

<https://cdn.environment.sa.gov.au/docs/resp...PD>

<https://cdn.environment.sa.gov.au/landscape/docs/hf/responsible-chemical-use-using-glyphosate-fact.pdf>

Does glyphosate spray go through roots or leaves?

Glyphosate is absorbed through plant leaves. It is then carried by the sap stream into the plant roots, where it prevents them from absorbing nutrients from the soil – thereby killing the plant. Annual weeds, including grasses and most broad-leafed plants, are easily controlled using Glyphosate.
