



BRAMPTON
Flower City

Chief Administrative Office
City Clerk

Delegation Request

For Office Use Only:
Meeting Name:
Meeting Date:

Please complete this form for your request to delegate to Council or Committee on a matter where a decision of the Council may be required. Delegations at Council meetings are generally limited to agenda business published with the meeting agenda. Delegations at Committee meetings can relate to new business within the jurisdiction and authority of the City and/or Committee or agenda business published with the meeting agenda. **All delegations are limited to five (5) minutes.**

Attention: City Clerk's Office, City of Brampton, 2 Wellington Street West, Brampton ON L6Y 4R2
 Email: cityclerksoffice@brampton.ca Telephone: (905) 874-2100 Fax: (905) 874-2119

Meeting: City Council Planning and Development Committee
 Committee of Council Other Committee:

Environment Advisory

Meeting Date Requested: June 14/22 Agenda Item (if applicable):

Name of Individual(s): Diane Smele
Dr. David Steele

Position/Title: President, member

Organization/Person being represented: Earthsave Canada

Full Address for Contact: Brampton, ON Telephone: Email:

| | |
|---------------------------------|---|
| Subject Matter to be Discussed: | Urgency of Climate Breakdown |
| Action Requested: | Transitioning 50% of city food purchases to plant-based |

A formal presentation will accompany my delegation: Yes No

Presentation format: PowerPoint File (.ppt) Adobe File or equivalent (.pdf)
 Picture File (.jpg) Video File (.avi, .mpg) Other:

Additional printed information/materials will be distributed with my delegation: Yes No Attached

Note: Delegates are requested to provide to the City Clerk's Office **well in advance of the meeting date:**

(i) 25 copies of all background material and/or presentations for publication with the meeting agenda and /or distribution at the meeting, and

(ii) the electronic file of the presentation to ensure compatibility with corporate equipment.

Submit by Email

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Earthsave Canada

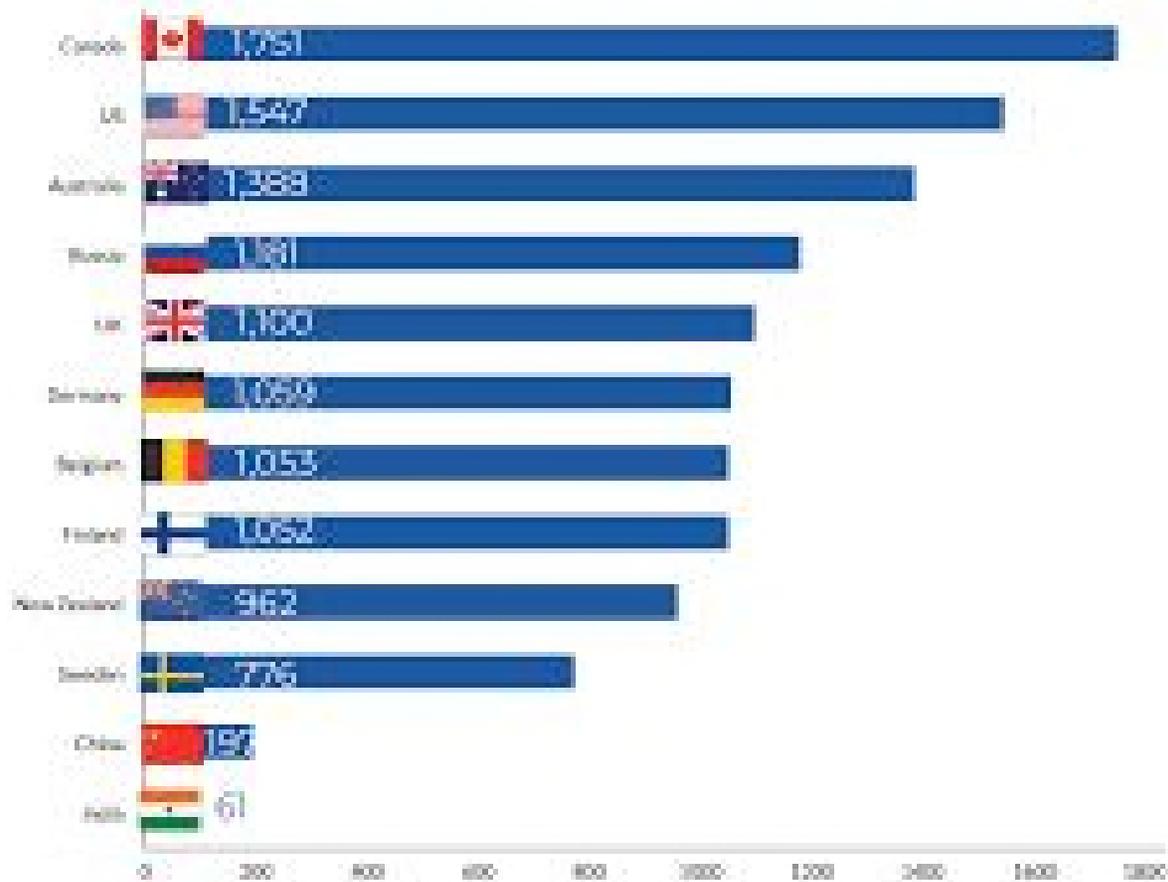
Diane Smele and
Dr. David Steele

The United Nations declared a
CODE RED for humanity.

Our Ask

That the City of Brampton take a stand
and shift 50% of animal-based food
purchases to plant-based purchases by
the end of this year.

Cumulative carbon emissions per capita from 1850-2021 (tCO₂), selected countries



Source: Carbon Brief

Globally, over the last 50 years

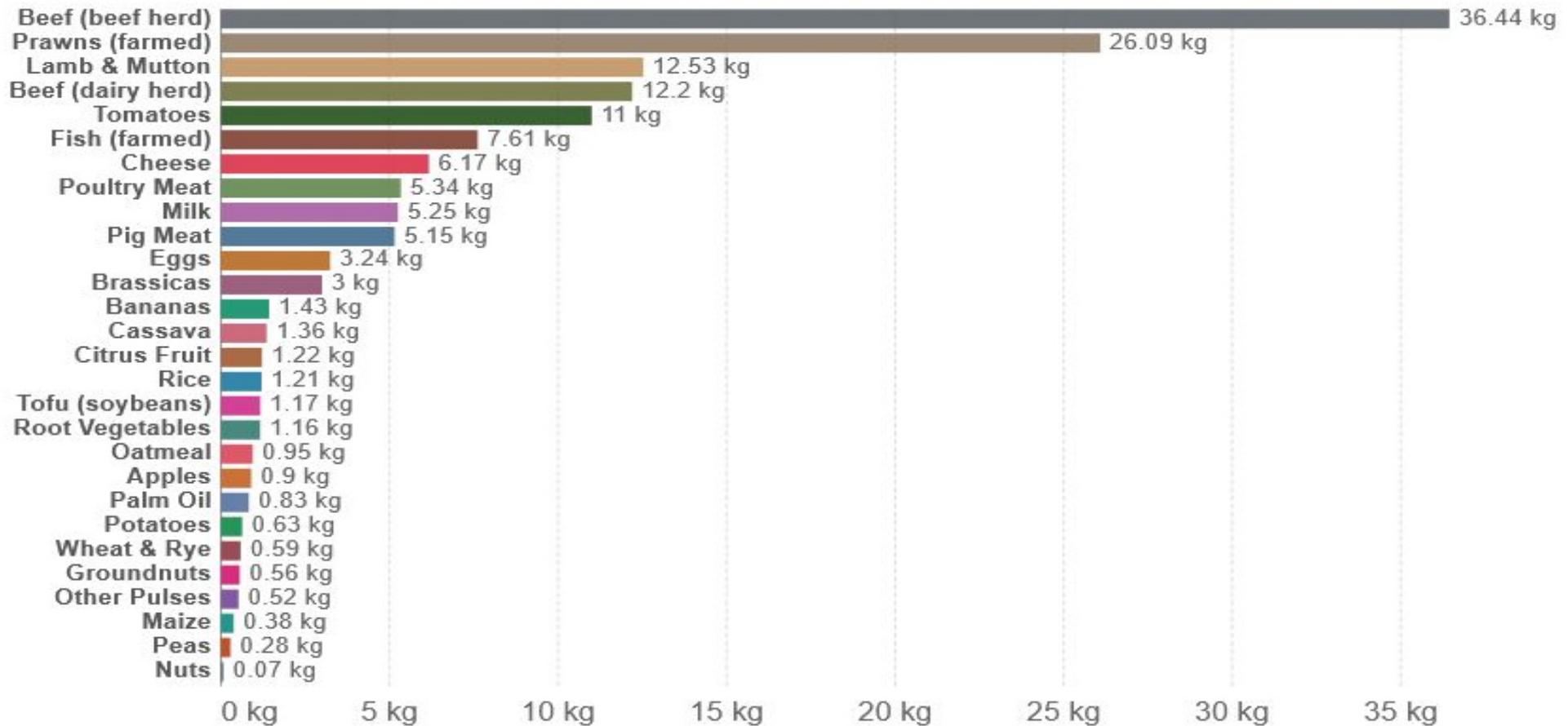
- The Earth's population has doubled
- The Earth has warmed 0.8 degrees
- CO₂, methane and nitrous oxide emissions are all up
- We have destroyed 17% of our forests
- Meat Production is up 267%
- Per capita meat consumption is up 75%

Plant-based vs Animal-based Foods

- Oxford University's "Reducing Food's Environmental Impacts" study found that animal agriculture uses 83% of the land, while only providing 18% of the calories
- Regenerative grazing requires even more land than industrial agriculture and results in more GreenHouse Gas (GHG) emissions
- A plant-based food system could free up 75% of agricultural land
- A huge opportunity exists to rewild, and restore ecosystems and biodiversity
- Methane has about 56 times the Global Warming Potential (GWP) of CO₂ over 20 years
- Nitrous Oxide has about 280 times GWP of CO₂ over 20 years

Greenhouse gas emissions per 1000 kilocalories

Greenhouse gas emissions are measured in kilograms of carbon dioxide equivalents (kgCO₂eq) per 1000 kilocalories. This means non-CO₂ greenhouse gases are included and weighted by their relative warming impact.



Source: Poore, J., & Nemecek, T. (2018). Additional calculations by Our World in Data. OurWorldInData.org/environmental-impacts-of-food • CC BY

Data from Oxford University

Easy Ways to Switch

- Use [Greener By Default](#) principles for workshops and conferences by:
 - ▶ default to greener option
 - ▶ feature plant-based options first
- Swap out burgers and hotdogs at city concession stands and events with plant-based alternatives



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Environment Advisory

Meeting Date Requested: June 14 / 22 Agenda Item (if applicable):

Name of Individual(s): Mo (Marian) Markham
Dr. Tushar Metha

Position/Title: Members

Organization/Person being represented: Plant-based Cities Movement

Full Address for Contact: Brampton, ON Telephone: Email:

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Mo Markham
and
Dr. Tushar Mehta

**The Feb. 2022 report from the IPCC states:
“Reduction of excess meat consumption is amongst
the most effective measures to mitigate GHG
emissions, with a high potential for environment,
health, food security, biodiversity, and animal welfare
co-benefits.”**

Our Ask

**That the City of Brampton take a stand
and shift 50% of animal-based food
purchases to plant-based purchases by
the end of this year.**

The World Is Already Taking Action

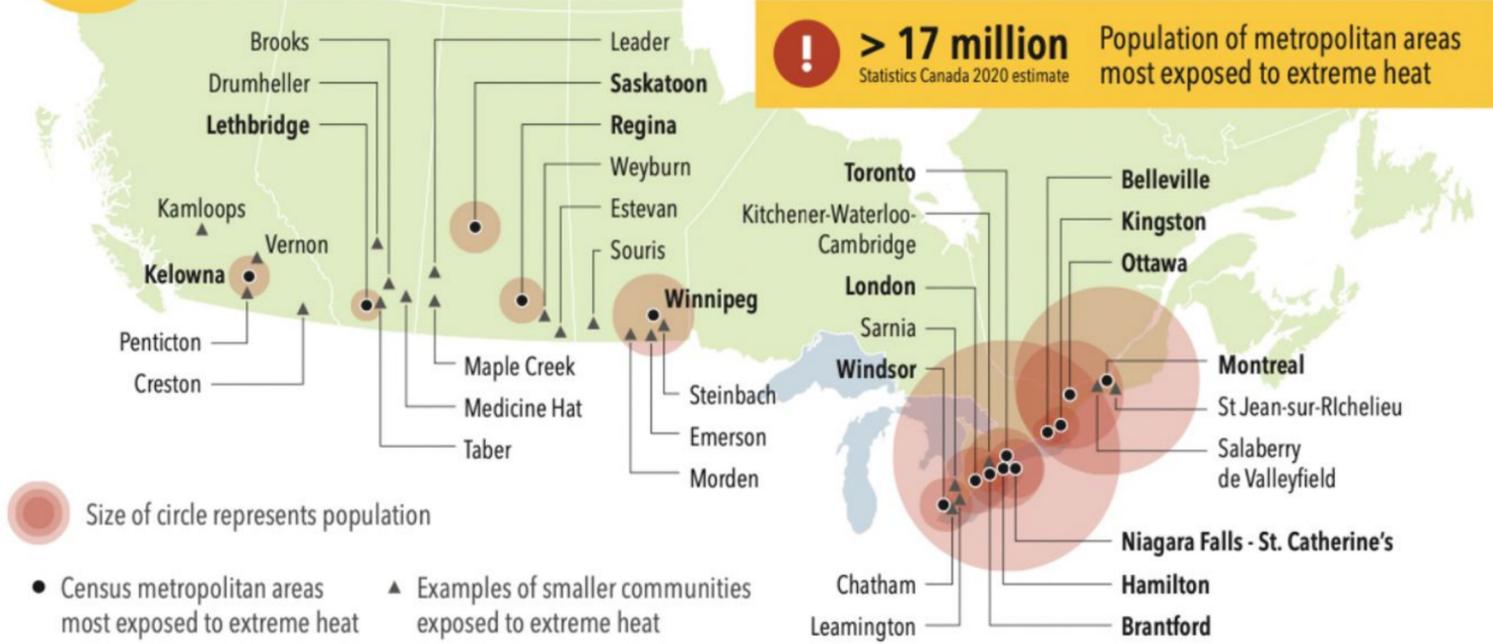
- 642 Canadian municipalities declared a Climate Emergency, and thousands more across the world
- Montreal has joined Toronto and 13 other cities across the world in committing to the C40 Good Food Cities Declaration
- Vancouver decided to switch 20% of its animal-based purchases to plant-based in 2021, with potential savings of \$99,000 and 500 tonnes of CO₂ equivalent
- Many universities and municipalities across the world are switching to plant-based meals

Extreme heat in Canada

Risk

Millions of Canadians live in the metropolitan areas and smaller communities where projected extreme heat indicators are most severe (2051-2080).

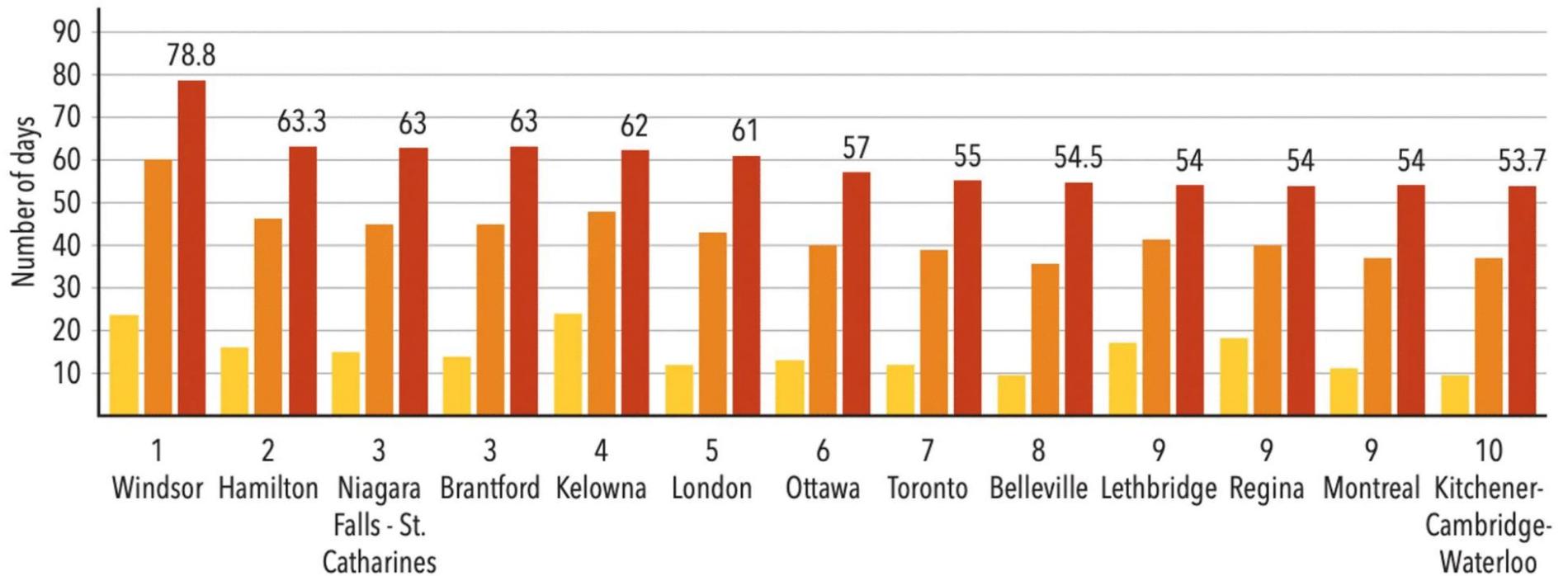
> 17 million Population of metropolitan areas most exposed to extreme heat
Statistics Canada 2020 estimate





Number of very hot days +30°C

Recent history (1976-2005) 2051-2080 Low Carbon 2051-2080 High Carbon



Extreme Weather in Canada

808 deaths reported during the extreme heat wave: BC Coroners Service

Amir Ali | Jul 16, 2021, 5:52 pm



B.C. floods among world's most devastating climate events of 2021

The full cost of flooding in B.C. is still being assessed, but according to one estimate, November flooding places B.C. as the world's fifth most expensive extreme weather event in 2021.



Stefan Labbé
Dec 26, 2021 4:00 PM



Manitoba could see 'very difficult growing season' as drought leaves soil dry heading into winter: minister

Low snowfall, above-average temperatures, sunshine could spell trouble for 2022 season, says Ron Schuler

CBC News - Posted: Dec 16, 2021 3:14 PM CT | Last Updated: December 17, 2021



B.C. heat wave causes mass mussel deaths – Jul 6, 2021

Chris Harley, a professor with UBC's Department of Zoology, said large numbers of dead sea life were spotted at beaches across Metro Vancouver.

Saskatchewan could be facing its worst drought on record

Saskatoon / 650 CKOM
Keenan Sorokan
Aug 12, 2021 | 7:00 AM



Extremely dry and cracked soil in a canola field on July 12 near Ile des Chenes, south of Winnipeg. PHOTO BY DAVE BAXTER/POSTMEDIA



Wildfire firefighter Sasha Terhouch sprays water on hot spots remaining from a controlled burn the B.C. Wildfire Service conducted to help contain the White Rock Lake wildfire on Okanagan Indian Band land, northwest of Vernon, B.C., on Wednesday, August 25, 2021. THE CANADIAN PRESS/Darryl Dyck

Finance minister hints at changes to BC Wildfire Service after climate disaster filled year

Extreme Weather in Canada, Cont'd

January 18, 2022
12:21 PM EST
Last Updated 3 months ago

Insurance

Canadian natural disasters caused insured losses of C\$2.1 billion in 2021

Reuters

2 minute read



Windstorm in Quebec and Ontario

Hundreds of thousands of people were left without power when a [violent storm](#) blew through parts of Ontario and Quebec, knocking down power poles and damaging transformers.



N.S. councillor calls storm biggest rain event he's likely seen in his lifetime



By [Rebecca Lau](#) · Global News

Posted November 24, 2021 1:29 pm · Updated November 24, 2021 7:06 pm



Heavy rains flood parts of Maritime provinces, sets all-time high at Ingonish Beach, N.S. (November 22, 2021)
Heavy rain flooded parts of the Maritime provinces on Tuesday, with Sydney, N.S. seeing more than 80 ...

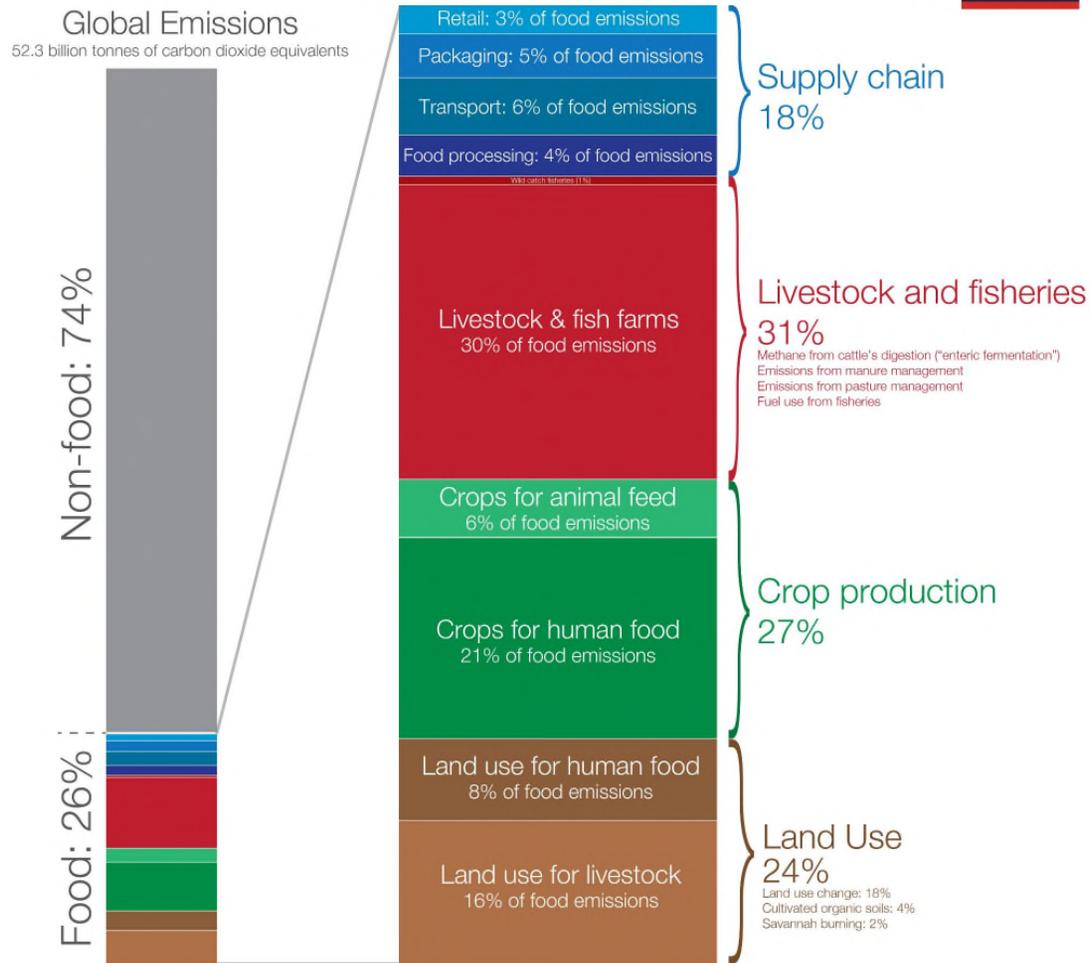
Storm hitting Atlantic Canada 'very similar' to what struck B.C.: meteorologist



Food and Water Security

- Raising 70 billion farm animals globally requires massive amounts of feed and water while humans starve
- Food and water shortages will increase even more as our population grows by another 2 billion people by 2050
- 1 lb of cheese requires 10,000 litres of water
- 1 lb of beef requires 6,800 litres of water
- Replacing a meat burger with a Beyond Meat burger reduces GHG emissions, land use and water use by more than 90%
- Accessing clean water is a problem in many places, including in communities in Canada

Global greenhouse gas emissions from food production Our World in Data



Data source: Joseph Poore & Thomas Nemecek (2018). Reducing food's environmental impacts through producers and consumers. Published in *Science*.
 OurWorldinData.org - Research and data to make progress against the world's largest problems. Licensed under CC-BY by the author Hannah Ritchie.



Animal Agriculture
 30+6+16= 52% out of
 82%. (~63%)

<https://ourworldindata.org/greenhouse-gas-emissions-food>

This is a difficult decision to make.
But if not now,
WHEN?





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Name of Individual(s):

Position/Title:

Organization/Person being represented:

Full Address for Contact: Telephone:
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| Subject Matter to be Discussed: | Health and Economics of Shifting to Plant-Based |
| Action Requested: | Transitioning 50% of city food purchases to plant-based |

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Healthy Diet & Sustainable Economy

Plant-based Food System by Shailly Prajapati



My ask to the City of
Brampton:

Take a stand and shift 50%
of animal-based food
purchases to plant-based
purchases by the end of this
year.



Cancer, Heart Disease and Diabetes

- Eating red and processed meat has been linked to cancer. - International Agency for Research on Cancer, WHO, and World Cancer Research Fund
- Plant-Based Diets Are Associated With a Lower Risk of Incident Cardiovascular Disease, Cardiovascular Disease Mortality, and All-Cause Mortality in a General Population of Middle-Aged Adults - Journal of the American Heart Association
- "One in 10 Peel adults has diabetes. By 2025, that number is likely to be one in six." - University of Toronto
- "A vegetarian diet characterized by whole plant foods is most beneficial for diabetes prevention and management." - the National Library of Medicine

Sources:

[WHO report says eating processed meat is carcinogenic: Understanding the findings | The Nutrition Source | Harvard T.H. Chan School of Public Health](#)

<https://www.utoronto.ca/news/whats-behind-peels-high-diabetes-rate-urban-planning-and-ethnic-backgrounds#:~:text=One%20in%2010%20Peel%20adults,Medical%20Officer%20of%20Health%20Dr.>

<https://www.wcrf.org/diet-activity-and-cancer/risk-factors/>

<https://www.ahajournals.org/doi/10.1161/JAHA.119.012865>

[Vegetarian Diets and the Risk of Diabetes - PMC \(nih.gov\)](#)

[A plant-based diet for the prevention and treatment of type 2 diabetes - PMC \(nih.gov\)](#)

Pandemics / Zoonotic Diseases

- The World Health Organization and The Centers for Disease Control say that 3 out of 4 diseases are zoonotic / come to us from other animals.
- The occurrence of cross-species viral epidemics can be substantially reduced by shifting to a plant-based diet.
- We can expect far more serious epidemics and pandemics in the near future.
- No known epidemic has resulted from the transmission of a plant virus to an animal.

Sources

WHO & the CDC

[The Causal Relationship between Eating Animals and Viral Epidemics - FullText - Microbial Physiology 2020, Vol. 30, No. 1-6.](#)

Antibiotic / Antimicrobial Resistance

- The UN General Assembly recognises the use of antibiotics in the livestock sector as one of the primary causes of antimicrobial resistance.
- Antimicrobial resistance (AMR), a declining effectiveness of medicines to treat bacterial infections, is identified by the World Health Organization (WHO) as one of the greatest threats to global health, development and food security.
- Pneumonia, tuberculosis, gonorrhoea, and salmonellosis are becoming harder to treat as the antibiotics used to treat them become less effective.
- Antibiotic resistance leads to longer hospital stays, higher medical costs and increased mortality.

Sources:

The UN General Assembly 2016

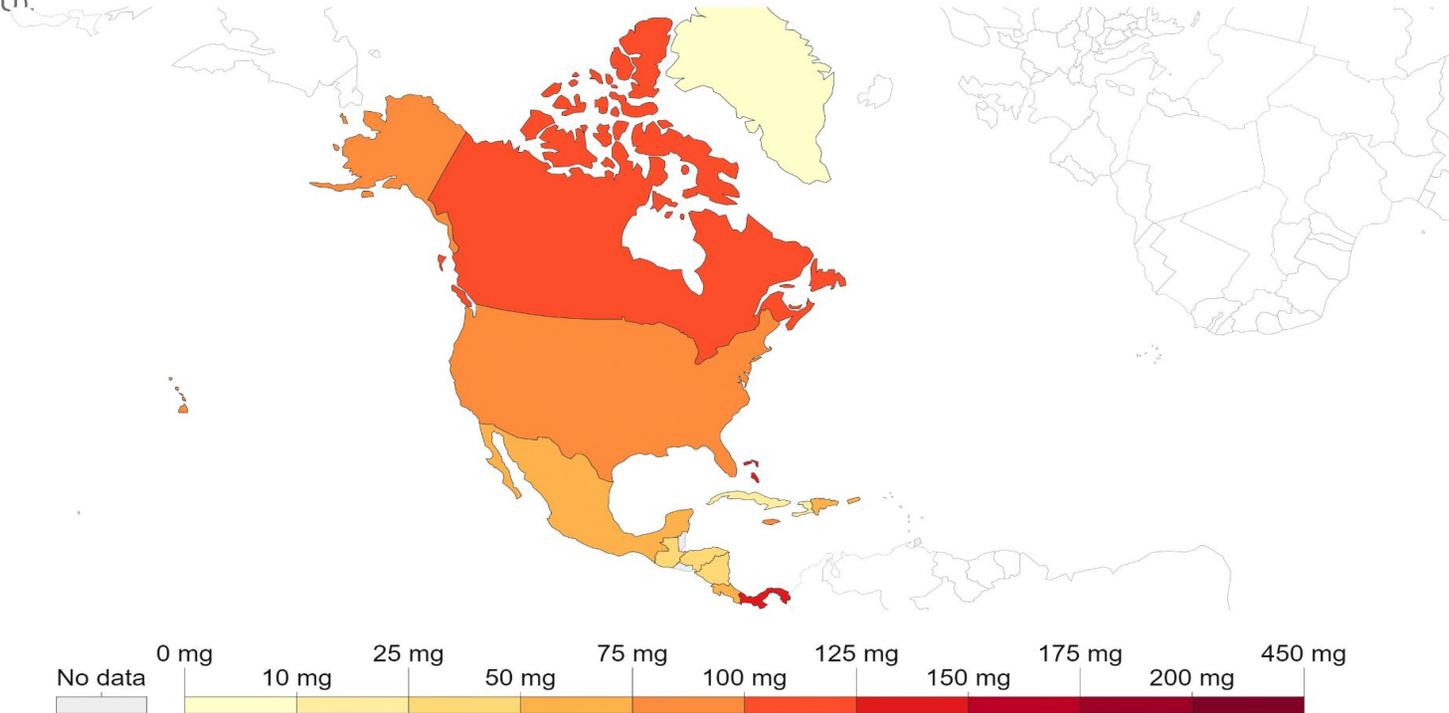
[How do we reduce antibiotic resistance from livestock? - Our World in Data](#)

<https://www.who.int/en/news-room/fact-sheets/detail/antibiotic-resistance>

Antibiotic use in livestock, 2016



Antibiotics are used in livestock for animal health and productivity, but also pose a risk for antibiotic resistance in both humans and livestock. Data is measured as the milligrams of total antibiotic use per kilogram of meat production. This is corrected for differences in livestock numbers and types, normalising to a population-corrected unit (PCU).



Source: European Medicines Agency, European Surveillance of Veterinary Antimicrobial Consumption (2017) & Van Boeckel et al. (2015)
OurWorldInData.org/antibiotic-resistance-from-livestock • CC BY

Eat-Lancet Planetary Health Diet & Canada's Food Guide

Recommend increasing
Plant-based foods for
health and planet

Source: [Summary of Canada's Food Guide \(concordia.ca\)](https://concordia.ca)

[The Planetary Health Diet - EAT \(eatforum.org\)](https://eatforum.org)



Transitioning is Good Business

- sales of plant-based groceries grew by more than 25% in 2021 in the USA & Canada
- plant-based foods in the US are a \$7 billion market (2021) and \$600 million in Canada (2020)
- young Canadians are choosing plant-based more often for the planet
- in 2021, the City of Vancouver approved a 20% shift from animal-based purchases to plant-based potential, with a potential savings of \$99,000 and 500 tonnes of CO2 equivalents

Sources

SPINS retail sales data 2021

Nielsen

Dalhousie University 2018 Study <https://www.nationalobserver.com/2020/02/18/news/young-canadians-are-becoming-vegetarian-or-vegan-fight-climate-change>

Increasing Plant-Based Purchasing at the Municipal Level: Cost-Benefit Analysis, 2021 Vancouver Humane Society

Economic Impacts

- **Climate change will cost Canadian municipalities billions of dollars**
- **Cost of Illnesses:** Meat and poultry products are vectors for 30.9% of all foodborne illnesses. This translates into 2.9 million annual illnesses, yielding economic costs of up to \$20.3 billion (US data).
- **Food Security:** Increased food supply with plant-based diets: Plant-based replacements for each of the major animal categories in the United States (beef, pork, dairy, poultry, and eggs) can produce 2-fold to 20-fold more nutritionally similar food per unit cropland.

Sources

<https://ipolitics.ca/2020/02/27/climate-adaptation-expected-to-cost-canadian-municipalities-5-3-billion-annually-report/>

[Food Attribution and Economic Cost Estimates for Meat- and Poultry-Related Illnesses](#)

[The opportunity cost of animal based diets exceeds all food losses | PNA](#)