Accelerating Toronto's Climate Action Through Food

Toronto Budget Subcommittee - Jan 18, 2023

Nital Jethalal



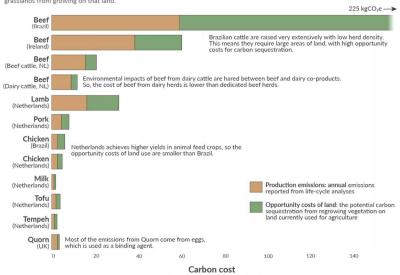
Meet Kareena



What are the carbon costs of different foods?



Total carbon costs is the sum of greenhouse gas emissions from food production, plus the opportunity costs of land. Using land gor agriculture – either crops or pasture – prevents natural vegetarion such as forests, or wild



Source: Schmidinger, K., & Stehfest, E. (2012). Including CO2 implications of land occupation in LCAs – method and example for livestock products.

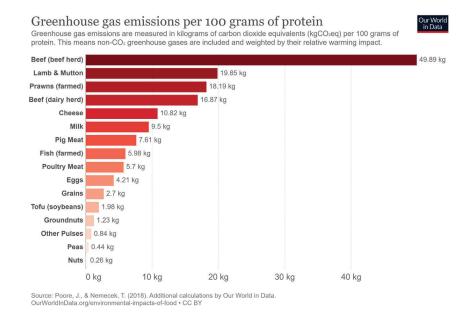
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Food has a HUGE impact on climate...

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...and animal-based foods have a much bigger impact

Article Published: 13 September 2021

Global greenhouse gas emissions from animal-based foods are twice those of plant-based foods

Xiaoming Xu, Prateek Sharma, Shijie Shu, Tzu-Shun Lin, Philippe Ciais, Francesco N. Tubiello, Pete Smith,

Nelson Campbell & Atul K. Jain □

Nature Food 2, 724–732 (2021) Cite this article

9799 Accesses 89 Citations 3004 Altmetric Metrics

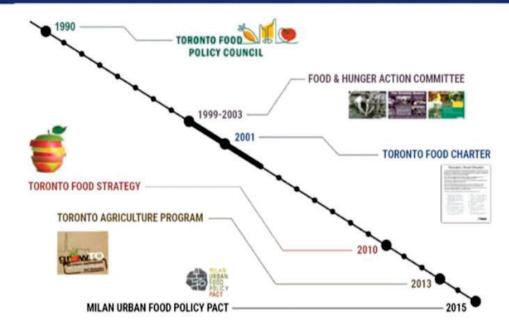
- Excluding animal products from diets reduces:
- Food's land use by 3.1 billion ha (a 76%↓), including 19% arable ↓;
- ♣ Food's GHGs by 6.6B metric tons of CO2eq (a 49%↓);
- Acidification by 50%;
- Eutrophication by 49%; &
- freshwater withdrawals by 19%

Poore, J., & Nemecek, T. (2018). Reducing food's environmental impacts through producers and consumers. Science, 360(6392), 987-992.

...and the impact is far beyond climate

TORONTO Public Health

City of Toronto Municipal Food Policy Timeline





"Adopting dietary change is the consumption intervention with the greatest potential for emissions reductions"

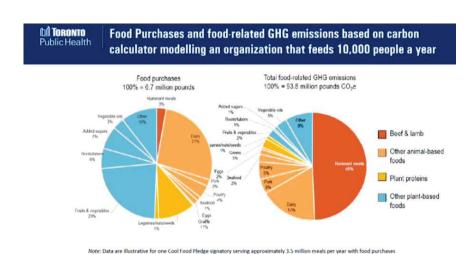
C40, Arup, University of Leeds. (2019). The Future of Urban Consumption in a 1.5°C World.

Adopting dietary change in the consumption intrology in the with the gratest stope and the constitution of the constitution of

A TIONS YOU CAN TAKE

- 1. Increase % of plant-based foods in procurement
- 2. Make it easier for people to eat plant-based!
- 3. Education the public
- 4. Work with restaurants
- 5. More widely implement the Canada Food Guide
- 6. Endorse & implement the Plant-Based Treaty

1. More Plant-Based Food Procurement



Altogether, the City of Toronto influences the procurement of ~7M meals a year

2. Make eating plant-based easier!





3. Education & awareness

Acceptance and awareness of major health findings

Estabished Finding	Skeptical	Unaware
Red meat is a probable carcinogen	45%	21%
Veg*ns have lower risks of heart disease, diabetes & certain cancers	31%	26%
Processed meat is a carcinogen	27%	21%
Whole or low processed soy consumption reduces breast and prostate cancer	20%	57%
Improving gut health can reduce the severity of COVID-19	20%	63%

55% feel diets are healthier with animal products

4. Work with restaurants

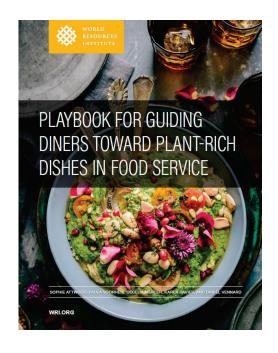
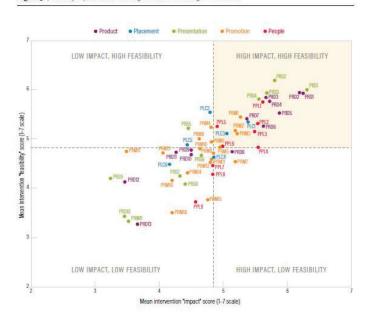
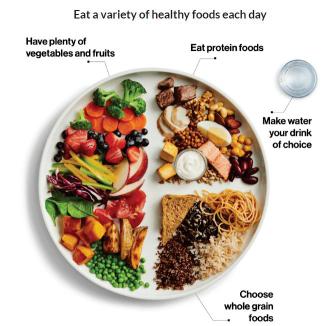


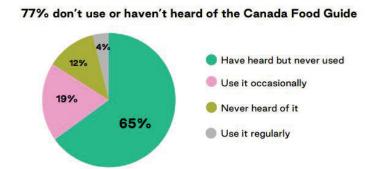
Figure 3 | Industry Representative Ranking of 57 Behavior Change Interventions



5. Wider implementation of Food Guide



Canada Food Guide Use



6. Endorse & implement the Plant-Based Treaty



6. PBT Cities Manual

- City Council Events
- Subsidizing whole plant-based foods
- Divestment
- Taxation
- Community Education
- Advertising
- Daycares
- Cities partnering with schools
- Community Education & Access

Toronto will support you!

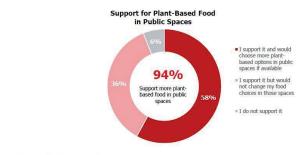
85% of the GTA eat animal products daily...

but ~2/3 want to reduce meat consumption

Plant-Based Offerings in Public Spaces

Nearly all GTA residents support more plant-based food being offered in public spaces, such as in schools, government buildings, hospitals or food courts.

Women are more likely to say they would choose more plant-based options if they were available in public spaces, while men are more likely to say they support it but would not change their food choices in those spaces.





Base: All respondents (n=1008)
QTL How do you feel about more plant-based food being offered in public spaces (e.g., schools, government buildings, hospitals, food courts)?

THANK YOU