



Mo Markham  
and  
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**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.**

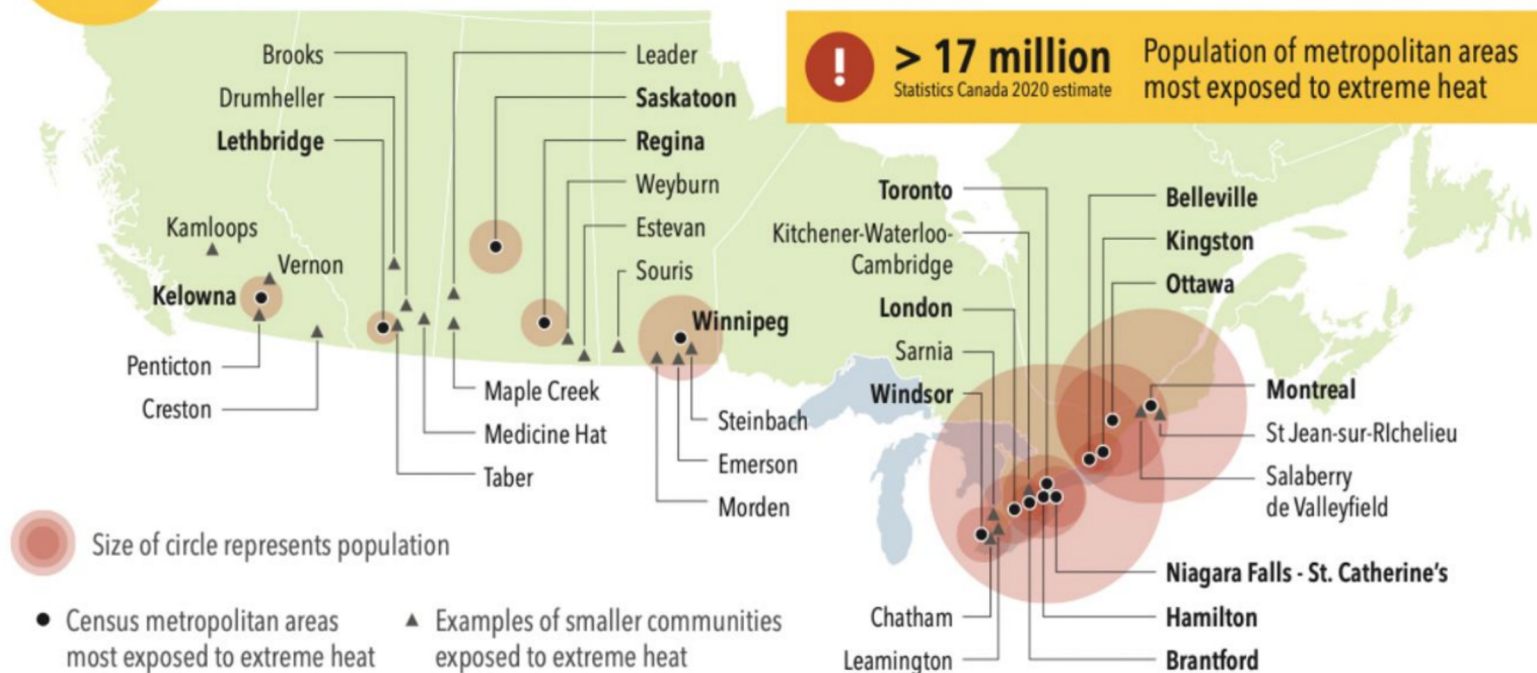
## The World Is Already Taking Action

- 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 CO<sub>2</sub> equivalent
- Many universities and municipalities across the world are transitioning to plant-based meals

# Extreme heat in Canada

## Risk

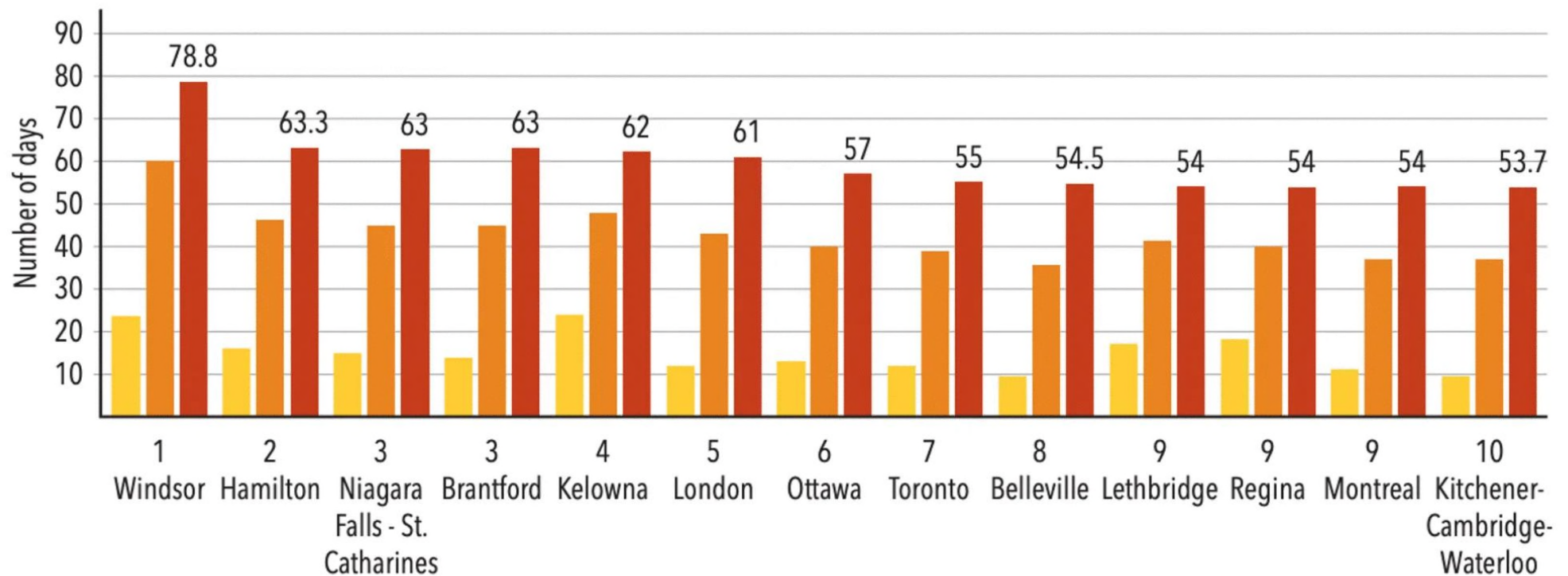
Millions of Canadians live in the metropolitan areas and smaller communities where projected extreme heat indicators are most severe (2051-2080).





## 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



3:41

B.C. heat wave causes mass mussel deaths

## Saskatchewan could be facing its worst drought on record

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



Wildland 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 Chinagan 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



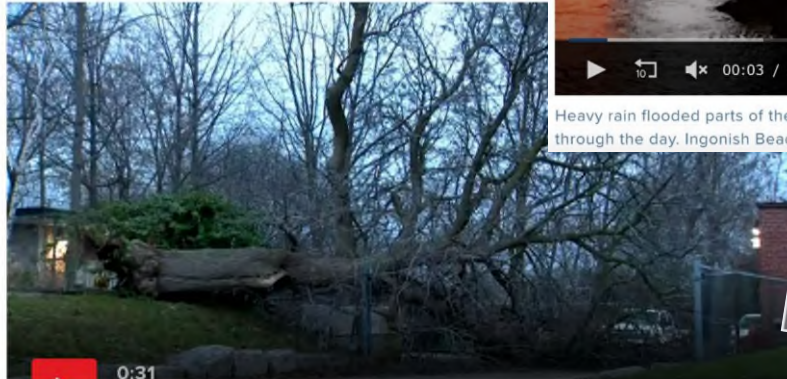
Extremely dry and cracked soil in a canola field on July 12 near Ile des Chenes, south of Winnipeg. PHOTO BY DAVE BAXTER/POSTMEDIA

# Extreme Weather in Canada, Cont'd



## Windstorm in Quebec and Ontario

Hundreds of thousands of people were left without power when a [violent storm blew through parts of Ontario](#) and 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 24, 2021

Heavy rain flooded parts of the Maritime provinces on Tuesday, with Sydney, N.S. seeing more than 80 ...

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



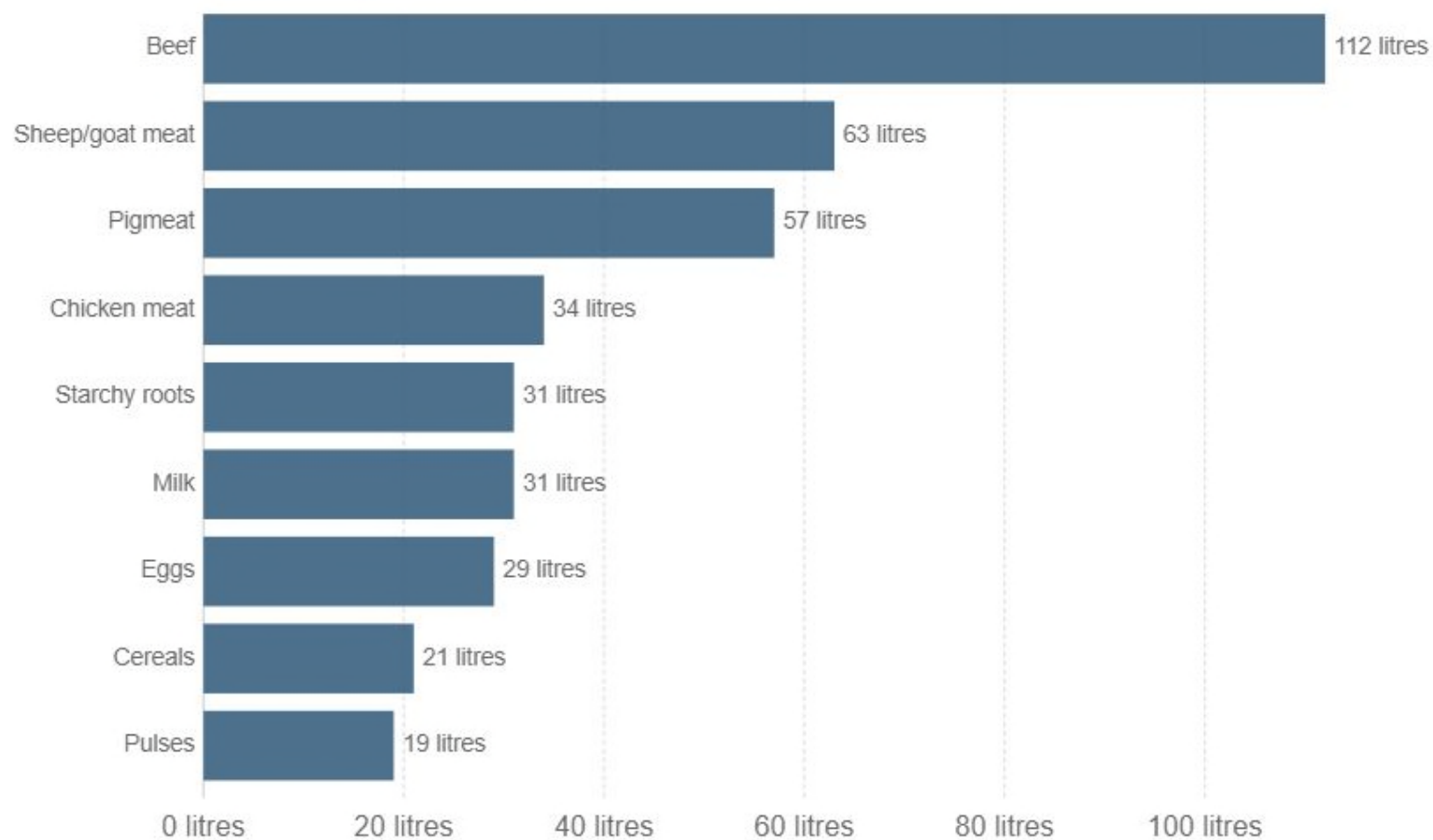
# Food and Water Security

- Food and water shortages will increase even more as our population grows by another 2 billion people by 2050
- Accessing clean water is already a problem in many places, including in communities in Canada



## Water requirement per gram of protein

Global average water footprint of food production per gram of protein, which includes water requirements across its full supply chain and the quantity of freshwater pollution as a result of production.

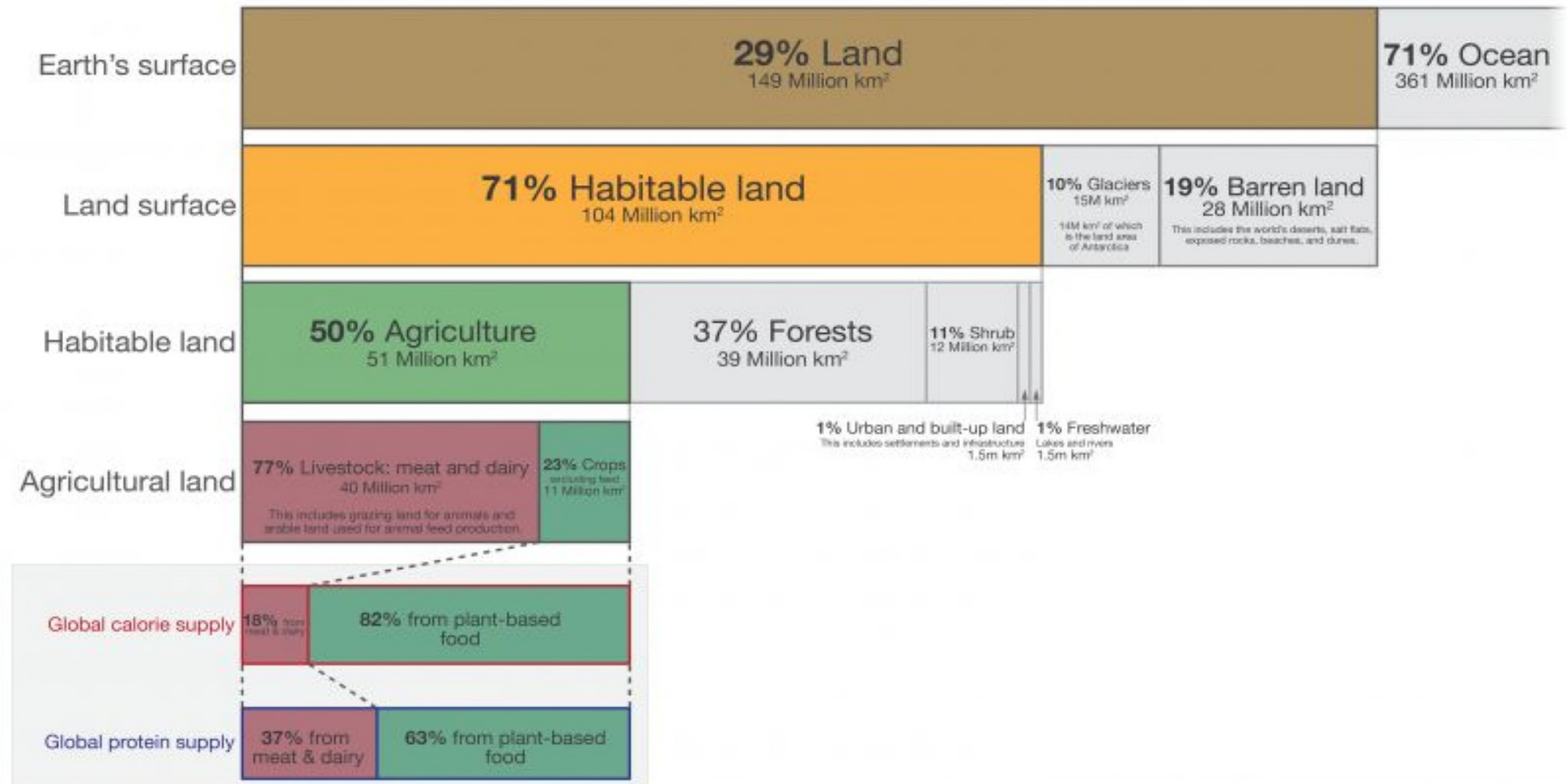


Source: Mekonnen, M.M. and Hoekstra, A.Y. (2012)

[OurWorldInData.org/water-access-resources-sanitation](http://OurWorldInData.org/water-access-resources-sanitation) • CC BY

# Global land use for food production

Our World  
in Data



Data source: UN Food and Agriculture Organization (FAO)

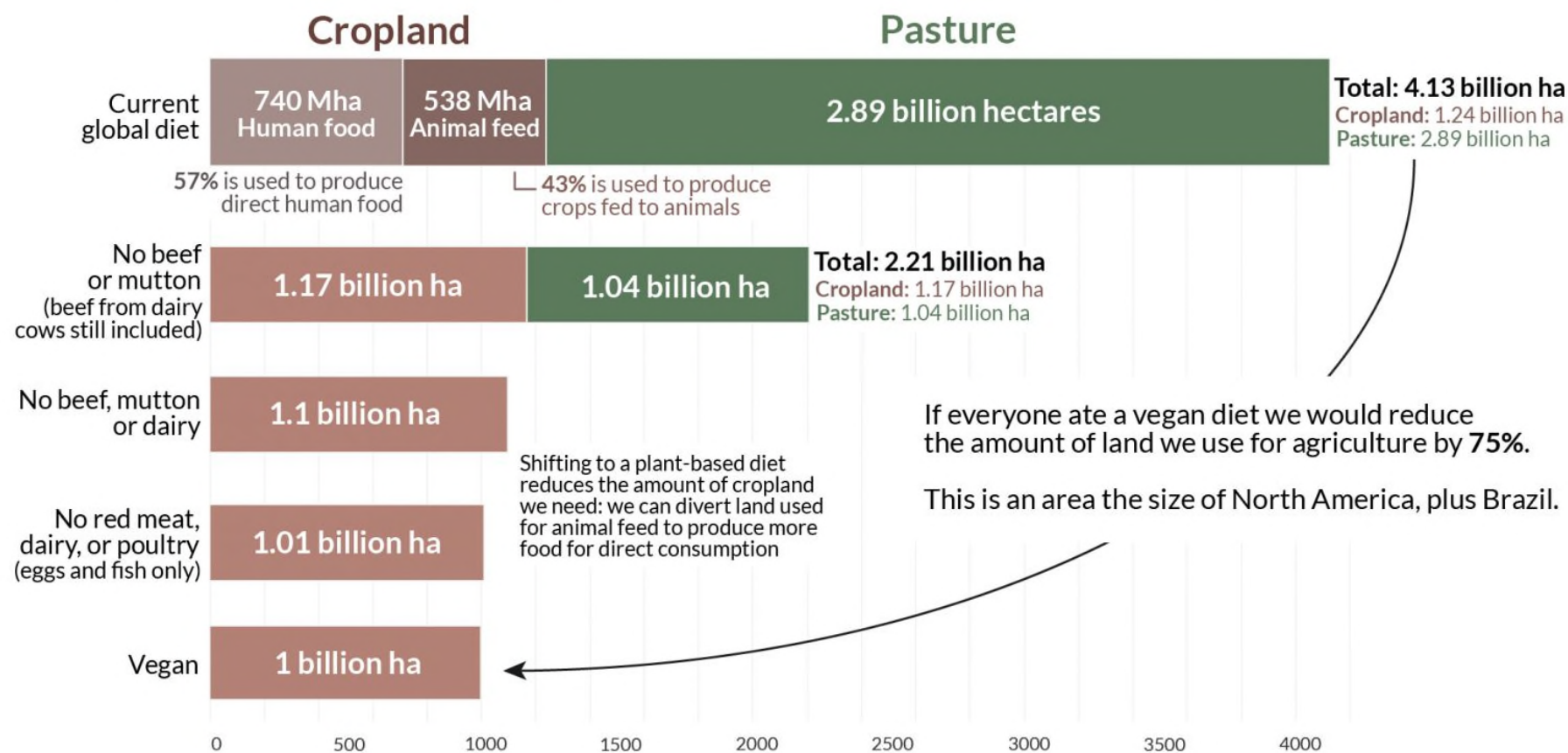
OurWorldinData.org - Research and data to make progress against the world's largest problems.

Licensed under CC-BY by the authors Hannah Ritchie and Max Roser in 2019.

# Global land use for agriculture across different diets

Our World  
in Data

Global agricultural land use is given for cropland and pasture for grazing livestock assuming everyone in the world adopted a given diet. This is based on reference diets that meet calorie and protein nutritional requirements.



Data Source: Joseph Poore & Thomas Nemecek (2018). Reducing food's environmental impacts through producers and consumers. *Science*.

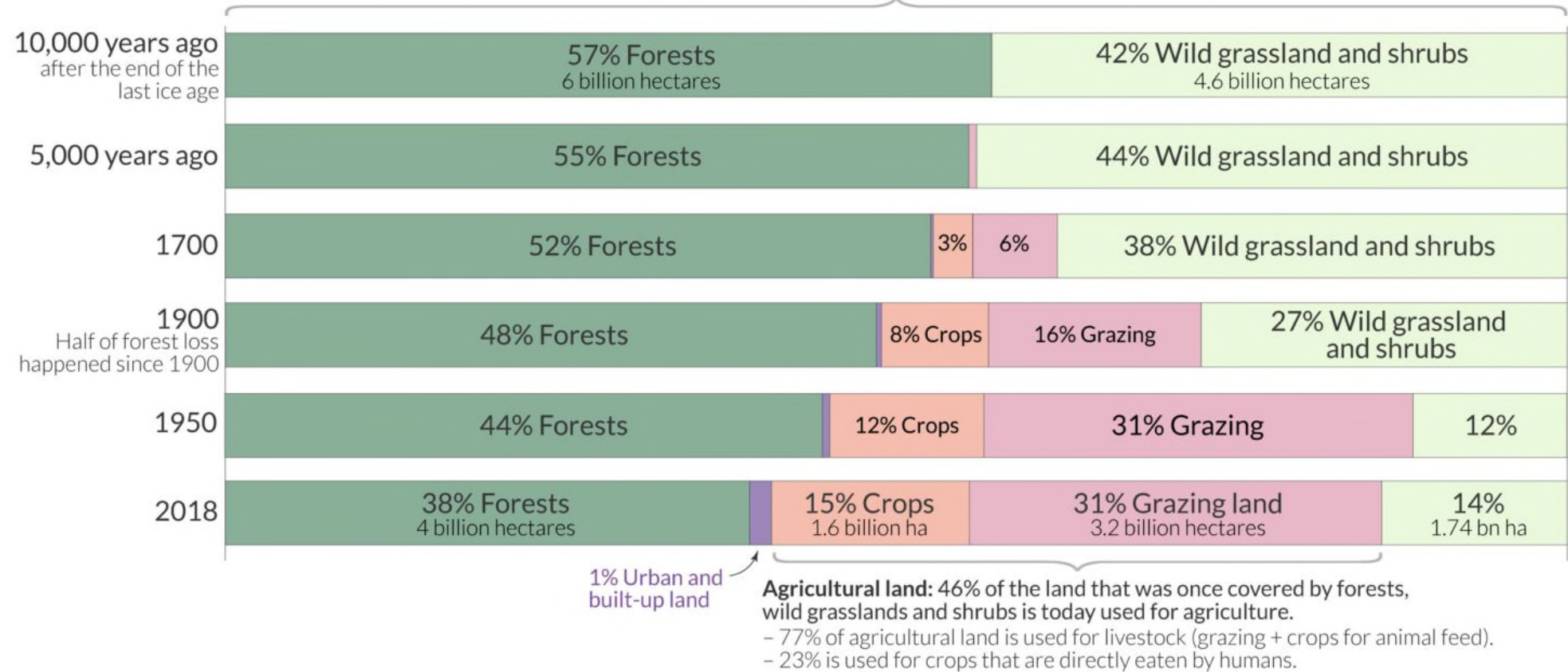
OurWorldinData.org – Research and data to make progress against the world's largest problems.

Licensed under CC-BY by the author Hannah Ritchie.

# Humanity destroyed one third of the world's forests by expanding agricultural land

Agriculture is by far the largest driver of deforestation. To bring deforestation to an end humanity has to find ways to produce more food on less land.

10,000 years ago, 10.6 billion hectares — 71% of Earth's land surface — were covered by forests, shrubs, and wild grasslands.  
The remaining 29% are covered by deserts, glaciers, rocky terrain and other barren land.



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

