SUSTAINABILITY OF DAIRY FARMING JANUARY 24, 2019 | (5) 4 MIN ARTICLE

FARMING FOR THE FUTURE: THE

Canadian dairy farmers work with the land and animals to make a living, so we

have great reason to care about the environment. We're proud to say that we're leading the way in sustainable farming, and through ongoing research and innovation, making great strides in reducing our carbon footprint. BY DFC - PLC, COMMUNICATIONS TEAM





Supply management helps prevent milk surplus and waste

lowest in the world.

among the lowest in the world

Compared to other countries, Canadian milk's carbon footprint is

Natural resources are required to produce food, and dairy is no exception. With each

production represents less than 1.3% of Canada's total greenhouse gas (GHG) emissions,

and the emissions generated from producing an average litre of milk here are among the

passing day, dairy farming is becoming more sustainable. Dairy farming does produce carbon emissions, but less than you may think. Milk

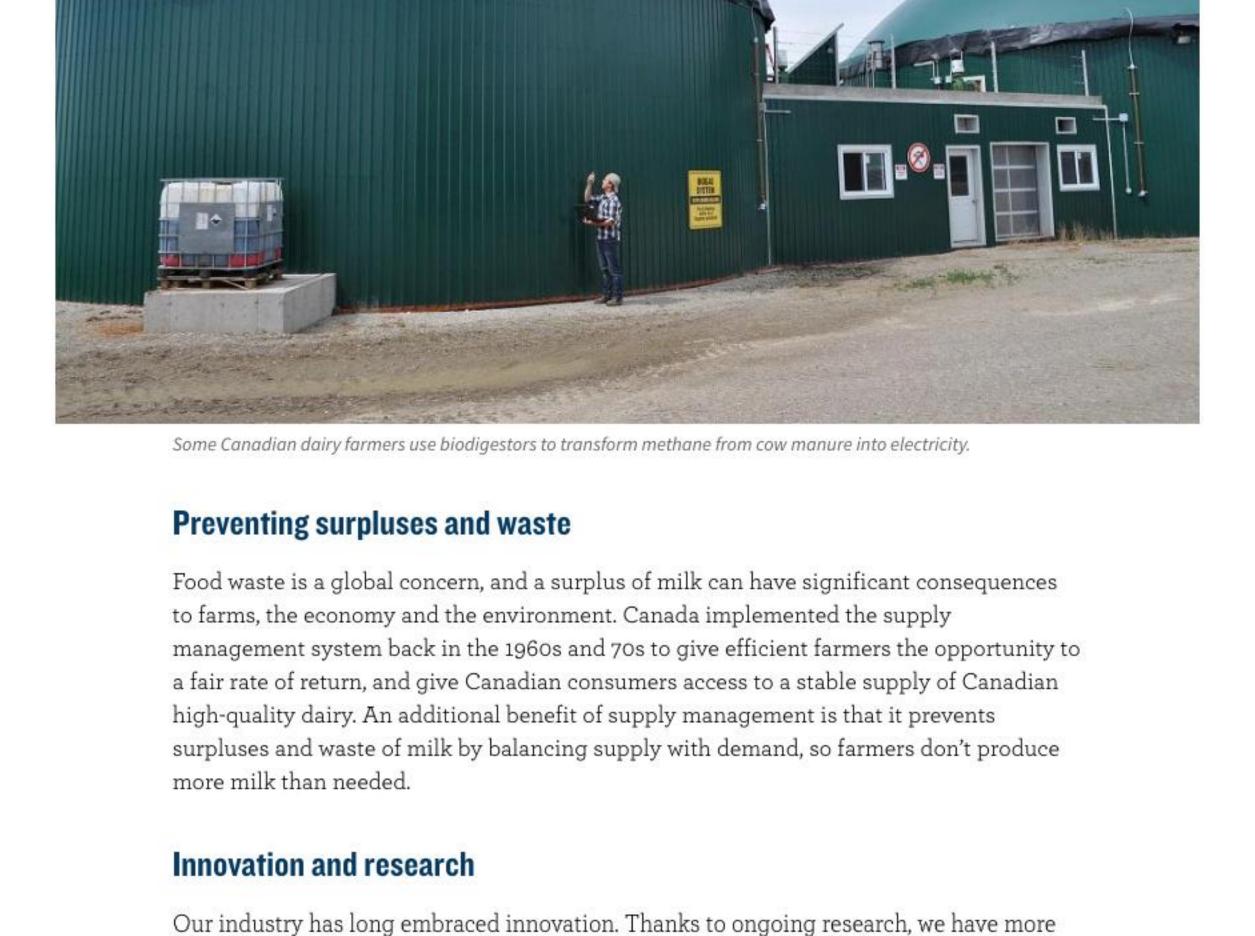
Thanks to new research, technologies and farming practices, farmers are able to do more with less. Let's take a closer look at how.



How? Over the last several decades, dairy farmers in Canada and other countries, along with their governments, have invested in research to learn more about cows, their

genetics, genomics and most optimal diet. Furthermore, ongoing research has led to great advances in barn technology and the treatment and care of dairy cows. They are more

comfortable, healthier, content, and living longer as a result. These changes don't happen overnight; they are the result of ongoing research and continuous improvements. Today, Canada has less than a million dairy cows, on average making about three times more milk than in 1973. Three times fewer cows means less of an impact on the environment.



tools like Dairy Farms+, which enables us to track our farm's efficiency by calculating its environmental footprint and identifying its strengths and areas for improvement.

How our milk measures up

the U.S., France and New Zealand.

uses 3% of the country's agricultural land.

Canadian dairy farmers have always produced milk responsibly, but we wanted to take stock and establish a path for more sustainable milk production in 2012. Dairy Farmers of Canada commissioned a Socioeconomic and Environmental Life Cycle Assessment (LCA) to benchmark our performance. An LCA is like a snapshot in time of a sector's performance. Environmental impact and social performance were evaluated at every life cycle stage, from raw material extraction up to the processing plant gate. More recently, we commissioned an update to the environmental snapshot. So how does Canadian milk measure up?

In Canada, the GHG emissions generated per unit of milk

produced were found to be among the lowest globally.

In 2011, producing a litre of milk in Canada produced 1,03 kg of CO2 equivalent. In 2016,

CO2 equivalent, which was comparable to or lower than some other countries, including

an updated assessment showed that our footprint was lighter, producing 0,97 kg of

knowledge and new technologies at our disposal, such as adding a biodigestor to

transform the methane from manure into electricity, and using nutrients more efficiently

to minimize the risk of ground water contamination. We can also benefit from helpful

water footprint and land use of milk production in Canada. Our impact on these natural resources also improved: producing a litre of milk today takes 6% less water and uses 11% less agricultural land.

Sustainability is not only environmental. It must also deliver social and economic benefits.

development to rural areas. It's one of the main agricultural sectors in Canada yet only

Dairy farming generates employment from coast to coast, bringing economic

GHG emissions aren't the only indicator of environmental impact. We also measured the

Making Canadian dairy more sustainable is an ongoing effort and one that matters to Canadian dairy farmers. Every little bit counts.

Canadian dairy farmers are passionate about milk, and the cows that produce it. Our

in targeted research projects aimed at reducing GHG emissions across farms, and

industry remains dedicated to improving farming practices and sustainability, investing

Still, we recognize that it's an ongoing process. Our continued commitment to our cows,

our milk and our planet is unwavering. When you choose Canadian milk, you're also making a choice about supporting this commitment, and that's good for all of us.

Farming for the future

lessening the impact on the environment.

SOURCES Food and Agriculture Organization of the United Nations. "Greenhouse gas emissions from ruminant supply chains: A global life cycle assessment." fao.org http://www.fao.org/docrep/018/i3461e/i3461e.pdf

https://dairyfarmersofcanada.ca/sites/default/files/2019-01/PLC-Info-ANG-F-17-12-2018_0.pdf

A life-cycle assessment (LCA) of the sector environmental profile." dairyfarmersofcanada.ca

Quantis, Groupe Ageco, and CIRAIG. "Sustained progress: Environmental efficiency of Canadian milk production

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