

Plant science innovation

Solutions for some of Canada's most pressing problems

Canadians are concerned about the cost of living, extreme weather events, and global conflict. While agriculture is not top of mind for many Canadians, it is an industry that is working hard to address many of the things they are concerned most about from food affordability and food security to sustainability. The plant science industry is proud to be developing solutions to support these efforts.



Staple groceries would cost a staggering

45% more

without plant science innovations

Cost of living

From housing affordability to high interest rates and food inflation — Canada is facing a cost-of-living crisis.

Crop losses for farmers mean higher food prices for consumers. New and improved crop varieties that can withstand extreme weather events and the targeted use of pesticides that fend off insects, weeds and diseases help make food more available and affordable.



Non-browning varieties of fruits and vegetables like apples can help reduce food waste across Canada.

Food security

Our ability to feed a growing population is under threat.

Global conflicts are disrupting food supply chains, extreme weather events and changing pest pressures are damaging crop yields, and the dire need to develop more housing is eating away some of Canada's most productive farmland. Feeding Canadians and the world will require made-in-Canada innovations for the future.

Whether it's higher yielding crops, varieties that are more resilient in the face of environmental stressors or new tools in the crop protection toolbox, these are all innovations that will support Canadian farmers in their important quest to sustainably grow more food.

The global population is expected to reach 9.1 billion by 2050, requiring a

70% increase

in food production



Global arable land is projected to increase by

less than 5%

To continue to supply Canadians and more than 150 countries around the world with food, Canada will need to increase productivity on existing land.

Source: Food and Agriculture Organization of the United Nations

Environmental sustainability

Reaching Canada's ambitious sustainability targets while growing more food will require bold, homegrown solutions.

Canadian farmers grow more per acre of land than at any other time in history while improving soil health and protecting the environment like never before.

Improved crop varieties will help farmers continue to grow more while minimizing their impact on the environment. Advances in precision agriculture are enabling more targeted and effective use of vital inputs.



Drought-tolerant plants can protect Canadian field crops from hotter, dryer growing conditions.



New nitrogen use efficient crop varieties will allow farmers to grow more while requiring less fertilizer.



We can grow Canada — with your help

The plant science industry is ready to deliver solutions to support food affordability, food security and environmental sustainability – and to create wealth for Canada. The agriculture and agri-food industry is responsible for 1 in 9 jobs in Canada and 7% of the GDP. Canada is the fifth largest exporter of agri-food products in the world with significant room for growth. Here's what we need to support that growth:



A regulatory environment that recognizes its role in enabling innovation and drives investment so that Canadian farmers can get access to the tools they need to be the most productive and sustainable in the world.



Policies that recognize the importance of agricultural productivity in driving sustainability and a rejection of policies that limit opportunities for sustainable productivity growth.



A global rules-based trading system that will increase the amount of Canadian agri-food products making their way around the world and drive increased economic activity in Canada.

For more information contact:

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