# GMOs: What are the benefits?



www.GoodinEveryGrain.ca

# MORE GRAIN

Canadian farmers produce 47% more grain thanks to pesticides and biotechnology.



Farmers are able to use fewer pesticides on their crops. The crops are more efficient and can withstand disease or pest outbreaks without the use of pesticides.

#### LESS FOOD WASTED

GM apples won't turn brown when cut open thus eliminating the need to throw food away before it spoils. \$31 billion worth of food is wasted in Canada each year.\* This is approximately 40% of food produced yearly in Canada.

#### **LESS** FUEL

Plant science innovations allow farmers to drive over their field fewer times, which saves up to 194 million litres of diesel fuel each year.

# MORE BIODIVERSITY

GM crops will enhance biodiversity as less land is needed for agriculture thus forests, marshes and other natural habitats aren't being used for farmland.



GM crops are able to help conserve water — more of the soils natural water is used and thus farmers don't have to supplement water loss with irrigation.

## LOWER COST

GMO crops allow food costs to be cheaper in the grocery store, as they are produced using fewer resources such as fertilizer, pesticides, water, and diesel fuel.

### LOWER GREENHOUSE GASES

Greenhouse gases and carbon emissions are reduced when farmers raise GM crops as they are able to adapt to no till or reduced tillage farming, and are able to reduce their carbon footprints.

Can GMOs help protect the environment? THEY ALREADY DO.

Contrary to myths about GMOs hurting the environment, they actually allow farmers to preserve the land while doing more with less resources.

The environmental challenge

**POPULATION** 

Convert more land, like forests and prairies, into agricultural production

Use agricultural technologies like GMOs to increase crop yields on existing farmland.





**70%** by 2050

**70%** 1 billion TONNES MORE GRAIN PER YEAR

TONNES MORE MEAT PER YEAR

will live in urban centres.

Without GMOs.

WE WOULD NEED

to grow what we do today.

News Brunswick 37 million **MORE ACRES** 

to grow the same amount of food we do today