

# Can GMOs HELP PROTECT THE ENVIRONMENT?



**THEY ALREADY DO.**

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

## The Environmental CHALLENGE:

**20%** POPULATION INCREASE BY 2050<sup>1</sup> =

HIGHER DEMAND FOR



**FOOD**



and **FIBER**



**FUEL**

**2** POTENTIAL PATHS

**1**

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

**2**

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

## GMOS are ONE SOLUTION

In 2018, GMOs allowed farmers to use

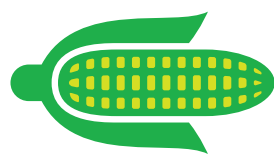
**59.7 MILLION** less acres of land

to produce the same amount of food, fuel and fiber crops

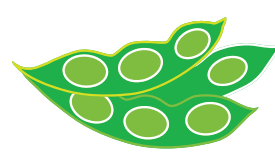
*That's more than the entire state of Idaho!*<sup>2</sup>



Without access to GMOs, farmers would have needed to plant an additional:



**20 MILLION** acres of corn



**30.4 MILLION** acres of soybeans



**7.7 MILLION** acres of cotton



**1.7 MILLION** acres of canola

to keep up with global production levels in 2018<sup>2</sup>

<sup>1</sup>World population projected to reach 9.7 billion by 2050 (2015). Retrieved from: <http://www.un.org/en/development/desa/news/population/2015-report.html>.

<sup>2</sup>Brookes, G. and Barfoot, P. (2020). GM crops: global socio-economic and environmental impacts 1996-2018. Retrieved from <https://pgeconomics.co.uk/pdf/globalimpactfinalreportJuly2020.pdf>.

