

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:

30% POPULATION INCREASE BY 2050¹ =

HIGHER DEMAND FOR



FOOD
and **FIBER**



FUEL

2 POTENTIAL PATHS

1

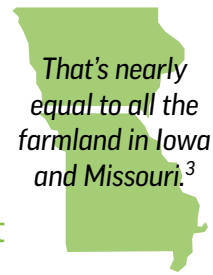
Convert more land, like forests and prairies, into agricultural production

2

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

GMOS are ONE SOLUTION

In 2016, GMOs allowed farmers to use **55.4 MILLION** less acres of land to produce the same amount of food, fuel and fiber crops²



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



20.3 MILLION acres of corn



26.7 MILLION acres of soybeans



7.2 MILLION acres of cotton



1.2 MILLION acres of canola

to keep up with global production levels in 2016⁴

¹ 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>.

² Brookes, G. and Barfoot, P. (2018). Environmental impacts of genetically modified (GM) crop use 1996-2016: Impacts on pesticide use and carbon emissions. <http://www.tandfonline.com>.

³ Brookes, G. and Barfoot, P. (2016). GM crops: global socio-economic and environmental impacts 1996-2014. Retrieved from http://www.pgeconomics.co.uk/pdf/Grow_More_on_Less.pdf.

