Can GMOs HELP PROTECT THE ENVIRONMENT



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

The Environmental CHALLENGE:

POPULATION INCREASE BY 2050

HIGHER DEMAND FOR





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 2015, GMOs allowed farmers to use

48.2 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:









18.2 MILLION

20.7 MILLION acres of soybeans

acres of cotton

1.7 MILLION acres of canola

to keep up with global production levels in 20154



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.

^{2,4} Brookes, G. and Barfoot, P. (2017). GM crops: global socio-economic and environmental impacts 1996 - 2015. Retrieved from http://www.pgeconomics.co.uk/.

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.