How GMOs Help Reduce FOOD WASTE & LOSS

In the United States, approximately

133 BILLION POUNDS

of food is **WASTED** annually, contributing to **18% of the total U.S. landfill methane** (greenhouse gas) emissions.¹



GM APPLES ARE
NON-BROWNING,
ELIMINATING
THOSE
SUPERFICIAL
ISSUES that cause
people to
unnecessarily
throw them away.²

In 2010, each American on average THREW AWAY

APPLES³ totaling
1.7 billion
pounds of
food waste.⁴

GM POTATOES
ARE LESS PRONE
TO BRUISING
AND BLACK
SPOTS, meaning
fewer potatoes
will end up
in landfills.





THE WEIGHT OF THE EIFFEL TOWER!6 GMOs help farmers minimize these losses and grow more food using less land.

In 2018, GMOs enabled farmers to use 59.7 million less acres of land to produce the same amount of crops⁷—equivalent to an area larger than the state of Idaho.

20 - 25%

of all crop yields in the U.S. are LOST to pests, crop diseases, or post-harvest losses. In the developing world, it's as high as 40 – 50%.8

- ¹ America's Food Waste Problem (2016). Retrieved from https://www.epa.gov/sciencematters/americas-food-waste-problem
- ² Artic Apple Benefits. Retrieved from http://www.arcticapples.com/arctic-apples-r/arctic-apples-benefits/
- ³ Smithsonian: This Is How Much Water You Waste When You Throw Away Food (2015). Retrieved from http://www.smithsonianmag.com/science-nature/how-trashing-food-wastes-water-too-180957239/?no-ist
- ⁴ U.S. Census Bureau Announces 2010 Census Population Counts Apportionment Counts Delivered to President. Retrieved from https://web.archive.org/web/20101224044247/http://2010.census.gov/news/releases/operations/cb10-cn93.html
- ⁵ Halterman, D., Guenthner, J., Collinge, S. et al. Biotech Potatoes in the 21st Century: 20 Years Since the First Biotech Potato (2016). Retrieved from: http://link.springer.com/article/10.1007/s12230-015-9485-1
- 6 All You Need to Know about the Eiffel Tower. Retrieved from http://www.toureiffel.paris/images/PDF/all you need to know about the eiffel tower.pdf
- 7 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
- ⁸ Global Scientists Meet for Integrated Pest Management Idea Sharing (2015). Retrieved from https://nifa.usda.gov/blog/global-scientists-meet-integrated-pest-management-idea-sharing

