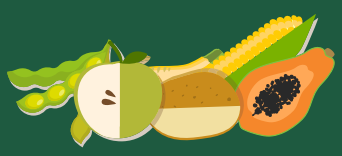
What Does GMO Stand For?



GENETICALLY MODIFIED ORGANISM.

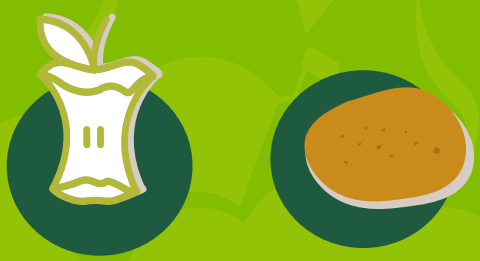
A GMO crop is the product of a **precise crop improvement technique** that enables us to take a beneficial trait (like insect resistance or drought tolerance) & transfer it into a crop plant.

GMO also stands for

BENEFITS:

ENVIRONMENT

1. GMOs help us preserve the land while doing more with fewer resources (e.g., drought tolerant and fertilizer use efficient products).[1]
2. GMOs help us reduce food waste (e.g., non-browning GMO apples and GMO potatoes that are less prone to bruising and black spots).[2, 3]



YOU

1. **LOWER FOOD COSTS** GMOs help us reduce the cost of food.
2. **GROW MORE FOOD, SAFELY & SUSTAINABLY**
   GMOs have been proven safe[5], and over the last 20 years, GMOs have allowed farmers to increase crop yields by 22% and reduced the overall environmental impact of pesticides by 18.4%.[1, 6]
3. **INCREASED NUTRITIONAL BENEFITS**
   Scientists are working on biofortified GMO crops to help address nutrition deficiency and food security issues around the world.[7]

GMO stands for food that's **safe to eat** and **sustainable to grow.**

[1] 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
[2] Artic Apple Benefits. Retrieved from https://www.arcticapples.com/arctic-apples-r/arctic-apples-benefits/
[3] 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
[4] Goodwin, B.. Marra, M., and Piggott, N. (2016) The cost of a GMO-free market basket of food in the United States. Retrieved fromhttp://www.agbioforum.org/v19n1/v19n1a03-marra.htm
[5] The National Academies of Sciences, Engineering, and Medicine. Genetically Engineered Crops: Experiences and Prospects. (2016) http://nas-sites.org/ge-crops/
[6] Klumper, W. and Qaim, M. A Meta-Analysis of the Impacts of Genetically Modified Crops (2014). Retrieved from http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0111629
[7] Gearing, M. (2015). Good as Gold: Can Golden Rice and Other Biofortified Crops Prevent Malnutrition? Retrieved from: http://sitn.hms.harvard.edu/flash/2015/good-as-gold-can-gol en-rice-and-other-biofortified-crops-prevent-malnutrition/

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