

GMOs in Perspective

GMOs are safe^{1,2}

Foods that contain GMO ingredients have the same makeup and nutritional value as non-GMO options.³



In the **20+ years** since GMOs were introduced, **trillions** of meals containing GM ingredients have been safely consumed⁴

GMOs have been studied extensively, with **ongoing regulation and oversight by the FDA, USDA and EPA.**² **Major medical associations agree.**^{5,6} Foods that contain GMOs pose no greater risk to humans or livestock than non-GMO foods.

GMOs help farmers meet the challenges of tomorrow.



Changing global conditions

GMOs fight viruses, disease and insects and allow crops to grow in drought and flood conditions.⁷



Improved sustainability

GMOs enable farmers to grow more food on less land using fewer chemicals.⁸ New apple and potato varieties eliminate browning and can help reduce food waste.



Affordable food

Without GMOs, prices for meat, milk, eggs and other foods could be higher. Research shows the price of crops as ingredients for food could be 15 to 30% higher without GMOs.⁹

¹Genetic Literacy Project. With 2000+ global studies affirming safety, GM foods among most analyzed subjects in science, Jon Entine & JoAnna Wendel 2013. <https://geneticliteracyproject.org/2013/10/08/with-2000-global-studies-confirming-safety-gm-foods-among-most-analyzed-subject-in-science/>. Accessed October 12, 2017.

²The National Academies of Sciences, Engineering, Medicine. Genetically Engineered Crops: Experiences and Prospects 2016. <https://www.nap.edu/catalog/23395/genetically-engineered-crops-experiences-and-prospects>. Accessed October 12, 2017.

³Van Eenennaam, A.L. and young, A.E. Prevalence and impact of genetically engineered feedstuffs on livestock populations. *J. Anim. Sci.* 2014. 92(10):4255-4278. <https://www.animalsciencepublications.org/publications/jas/articles/92/10/4255>. Accessed October 12, 2017.

⁴Forbes 2014. The Debate About GMO Safety Is Over, Thanks To A New Trillion-Meal Study. <https://www.forbes.com/sites/jonentine/2014/09/17/the-debate-about-gmo-safety-is-over-thanks-to-a-new-trillion-meal-study/#2672d1228a63>. Accessed October 12, 2017.

⁵American Medical Association. AMA Report on Genetically Modified Crops and Foods. <https://www.isaaa.org/kc/Publications/html/articles/Position/ama.htm>. Accessed October 12, 2017.

⁶World Health Organization (WHO). Modern Biotechnology, Human Health, and Development: An evidence-based study 2005. <http://www.who.int/foodsafety/publications/modern-food-biotechnology/en/>. Accessed October 12, 2017.

⁷Nemali, K.S., Bonin, C.; et al (2015). Physiological responses related to increased grain yield under drought in the rst biotechnology-derived drought-tolerant maize. 2014. <https://www.ncbi.nlm.nih.gov/pubmed/25210866>. Accessed October 12, 2017.

⁸International Food Information Council. Fact Sheet: Benefits of Food Biotechnology 2013. <http://www.foodinsight.org/articles/fact-sheet-benefits-food-biotechnology>. Accessed October 12, 2017.

⁹Coalition for Safe Affordable Food. Benefits Of Food & Ag Biotechnology. <http://coalitionforsafeaffordablefood.org/benefits-of-biotechnology/>. Accessed October 12, 2017.