



GMO vs Non-GMO Animal Feed



Animal agriculture converts crops into high-quality protein like those in meat, milk and eggs. Feeding livestock and poultry with feeds made from GMO crops can be more beneficial to the environment.

SAME

Nutrition & Safety

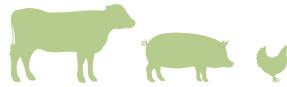
whether animals are fed GMO or non GMO-feed

Food



The resulting food products, like milk, meat, and eggs, are the same ¹

Health



Health, growth and performance of animals are the same ²

Nutrition



Composition and digestibility of the feed is the same ³

SAFE

GMO Crops

The National Academies of Sciences, Engineering and Medicine reviewed

>900 studies and publications based on >20 years of data and concludes that GMOs were safe for:



Humans



Beneficial insects & pollinators



Environment

"No substantiated evidence of a difference in risks to human health between current commercially available genetically engineered [GM] crops and conventionally bred crops". ⁴

¹ Van Eenennaam, A. L. and A.E. Young. 2017. Detection of dietary DNA, protein and glyphosate in meat, milk and eggs. *Journal of Animal Science*. 95(7):3247-3269. <https://www.animalsciencepublications.org/publications/jas/articles/95/7/3247>

² Van Eenennaam, A. L. and A. Young. 2014. Prevalence and impacts of genetically engineered feedstuffs on livestock populations. *Journal of Animal Science*. 92:4255-4278. <https://www.animalsciencepublications.org/publications/jas/articles/92/10/4255>

³ Flachowsky, G. and T. Reuter. 2013. *Animal Frontiers*. Future challenges feeding transgenic plants. 7(2): 15-23. <https://animalsciencepublications.org/publications/af/articles/7/2/15>

⁴ National Academy of Sciences. 2016. *Genetically Engineered Crops: Experiences and Prospects*. <http://nas-sites.org/ge-crops/>

⁵ Brookes, G. and Barfoot P. (2017), *GM crops global socio-economic and environmental impacts 1996-2015*. Retrieved from <http://www.pgeconomics.co.uk>

MORE

Sustainable Food

Farmers can grow more with less impact on the environment

48 M more acres

In 2015, without GMOs, 48 million more acres would have needed to be planted to grow the same amount of food. ⁵



Greenhouse Gas

In 2015, GMOs helped reduce CO₂ emissions by 59 billion pounds. That's like removing 12M cars from the road for 1 year. ⁵



19%

Since 1996, GMO crops have resulted in the use of less pesticides and their environmental impact was reduced by 19%. ⁵

