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GMO SUSTAINABILITY

Claim: Genetically modified organisms are NOT the most sustainable for the environment. GMOs have become popularized due to desired increases in crop yield. Increased crop yield has led to decrease attention to the environment.

NEGATIVE ENVIRONMENTAL EFFECTS

 \star Genetically modified crops deplete the nutritional value of soils and food.

- Viewing higher yields of crops, planters are focussing less on the addition of compost or fertilizers to the soil; which is done for replenishment of nutrients into the soil. (note figure below)
- This results in inadequate soil 0 environments for GMOs as well as other organisms.
- ★ Disturbances of ecosystems and biodiversity
 - Development of resistant organisms (Food and Chemical Toxicology, 2017).
 - Resistant organisms increase in 0 population, resulting in decreases in populations of the organism they eat (Food and Chemical Toxicology, 2017).
 - Unified production of traits 0
 - Reduction in natural processes that aid 0 varietal development (Food and Chemical Toxicology, 2017).
 - GMO's outcompete native organisms 0

Figure 3:



Visual representation of the effects GMO's have on crop land. Left side is crops with nutrient rich soil vs. right side where crops have nutrient low soils.



Glyphosate and Autism* of children (6-21vrs) with autism served by IDEA

