

GMOS - GENETICALLY MODIFIED ORGANISMS

WHAT ARE GMOS?

“Genetically modified organism: an organism or microorganism whose genetic material has been altered by means of genetic engineering”

Common food GMOs include: corn, soy, canola, and sugar beets.



HISTORY AND MODERN APPLICATIONS

GMOs exist for thousands of years to date.

Started with cross breeding crops.

Discoveries in genetic variations and gene splicing advanced the field greatly.



PROS

- ✓ Increase yields of products
- ✓ Increase quality of products
- ✓ Create new products that can outcompete what is on the current market

CONS

- ✓ Poor public perception
- ✓ People do not like it when you mess with the products that they are used to.
- ✓ Possible health risks

REGULATION AND LAWS

- ➔ No comprehensive federal legislation specifically for GMOs
- ➔ No Labeling Law
- ➔ GMOs are regulated by environmental, health, and safety laws
- ➔ Three main regulatory agencies include: APHIS, FDA, and EPA

ETHICAL ISSUES

- ➔ Price controlled by patent holders
- ➔ Genetic modifications on animals
- ➔ GMO crops allowed back to nature'
- ➔ Patented crops spread to other fields

Ethics of
GMO's