



Human activities in agriculture and livestock and their effects on climate change. Deforestation

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Key words, phrases

Fertilisers- chemicals used to boost plant growth

Livestock- animals kept by humans for their benefit (cows, sheep, goats, poultry).

Manure- poop

Erosion- erosion is the action of surface processes (such as water flow or wind) that removes soil.



Sources and causes of pollution

Agricultural pollutants of greatest concern to human health are livestock pathogens, pesticides, nitrates in groundwater, traces of metallic elements and new pollutants, such as antibiotic resistant and antimicrobial resistant genes in animal feces.





Toxic pollutants emitted into the environment

The primary agricultural pollutants are fertilisers (particularly nitrogen and phosphorus), sediment, pesticides, and salts.

Agricultural nonpoint sources enter underground water through direct surface runoff or through seepage to surface water that discharges to underground water outlet.





How does agriculture effect global warming?

Some agricultural air pollutants (for example, ammonia, hydrogen sulphide, toxic organic compounds, pesticides, insecticides and particulate matter) can affect human health.

Leaked fertilisers cause water plants to grow quickly and pollute waters and cause swamping.





How to improve agriculture

Use alternative energy sources.

Use fertilisers more efficiently.

Plant trees and other foliage plants around fields to prevent erosion and further pollution.

Ban toxic chemicals used in agriculture.

Plant foliage on fields when not used to prevent erosion and further pollution.





How to improve livestock?

Raising livestock generates 14.5 per cent of global greenhouse gas emissions that are very bad for the environment, so on farms need to:

Reduce CO₂ emissions.

Reduce methane and nitrous oxide emissions.

Reduce ammonia emissions.

Decrease animal waste.



How to improve livestock

Improve pastures.

Limit amount of livestock.

Manage manure (feces)

Keep animal housing clean.

Reduce heat loss on farms.

Manage animal diets carefully.

Encourage sparing use of food.





How can WE decrease pollution of agriculture and livestock?

Buy plant-based meat to increase its popularity.

Buy naturally grown vegetables to increase their popularity.

Support new technologies.

Increase popularity of plant-based meat and naturally-grown fruit and vegetables.



International agreements

The United Nations Framework Convention on Climate Change (UNFCCC) is the first and main international treaty aimed at reducing greenhouse gas emissions.

It was signed at the Rio de Janeiro Earth Summit in 1992.





Conclusion

Agriculture and livestock are very serious contributors to climate change. They are polluting the planet.

**Learn in sowing, teach in harvest
and enjoy in winter.**