

How does human intervention affect the nitrogen cycle?

- Nitric Oxide (NO) is released into the atmosphere when any type of fuel is burned. This includes byproducts of internal combustion engines.
- Nitrous Oxide (N₂O) is released into the atmosphere through bacteria in livestock waste and commercial fertilizers applied to the soil.
- Removing nitrogen from the Earth's crust and soil when we mine nitrogen-rich mineral deposits.
- Discharge of municipal sewage adds nitrogen compounds to aquatic ecosystems which disrupts the ecosystem and kills fish.

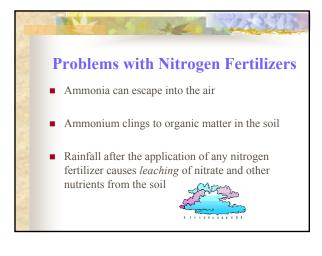


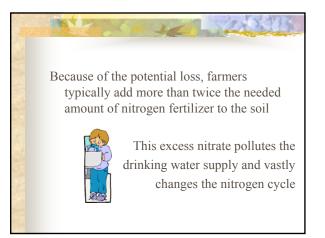




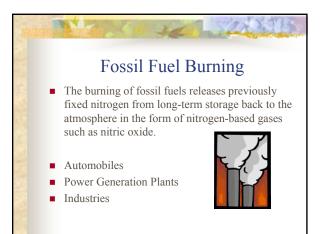


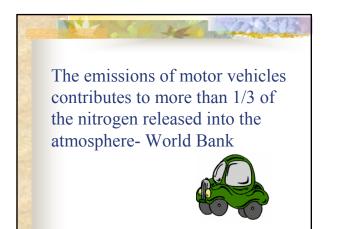


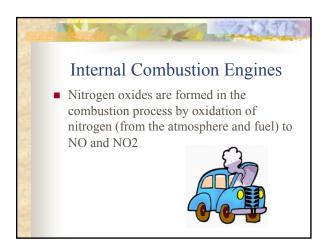


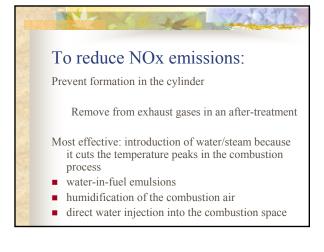


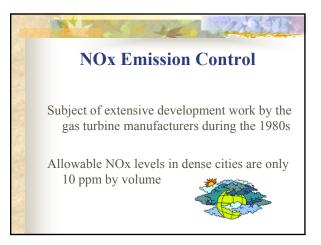


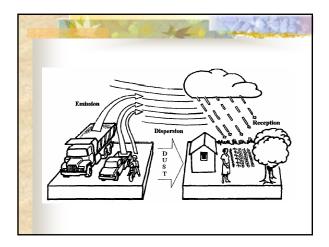




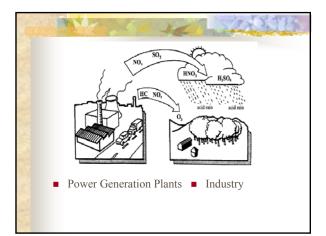


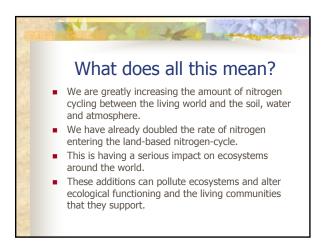


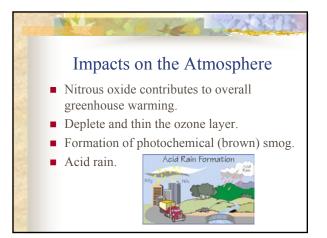


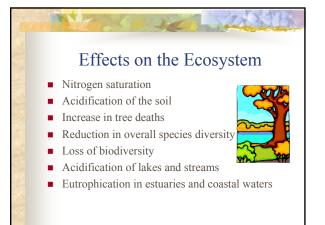












For Further Information

Public Affairs Office Ecological Society of America

This information was largely reproduced from the "Human Alteration of the Global Nitrogen Cycle: Causes And Consequences," published by the Ecological Society of America, in the journal *Ecological Applications* (Volume 7, August 1997) with detailed citations to the original scientific literature.