



SOIL

POLLUTION



SOIL



POLLUTION

DEFINITION:

Soil pollution can be defined as introduction of undesirable substance in soil which adversely affects its physical, chemical and biological properties.



HEAVY METALS

NUCLEAR WASTE

INORGANIC FERTILIZERS

LANDFILLS

**CAUSES OF
SOIL
POLLUTION**

SOLID WASTE

PESTICIDES





PESTICIDES

- Pesticides refer to chemical substances that are used in killing or controlling pests to protect food and crops.
- Examples of pesticides are- DDT, boric acid, acephate, Dursban, etc.
- Using pesticides in a continuous manner can harm the soil quality and quantity.

CAUSES OF
SOIL
POLLUTION



HEAVY METALS

The presence of heavy metals (such as lead and mercury, in abnormally high concentrations) in soils can cause it to become highly toxic to human beings.

CAUSES OF
SOIL
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**CAUSES OF
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NUCLEAR WASTE

Nuclear waste is highly toxic to our environment . It also contains various chemicals that are not good for the soil ; it decreases soil fertility and causes soil pollution.



CAUSES OF SOIL POLLUTION

LAND FILLS

Landfills are one of the causes of soil pollution. When garbage is dumped in a landfill, it decomposes and produces leachate, a liquid that can contaminate the soil and groundwater.

As we produce more and more disposable stuff, the lands are overflowing with garbage worldwide.



INORGANIC FERTILIZERS

Excessive use of inorganic nitrogen fertilizers leads to acidification of soil and contaminate the agricultural soil . Also known as agrochemical pollution.

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SOLID WASTE

CAUSES OF SOIL POLLUTION

Disposal of plastics , cans , and other solid waste falls into the category of soil pollution. Disposal of electrical goods such as batteries causes an adverse effect on the soil due to the presence of harmful chemicals . For instance , lithium present in batteries can cause leaching of soil.



EFFECTS OF SOIL POLLUTION



- (i) Salinity and water logging reduce the fertility of soil and crop yield.
- (ii) Toxic chemical present in the soil also affect the plant growth and human life .
- (iii) Soil pollution contaminated the underground water.



PREVENTIVE MEASURES OF SOIL POLLUTION

1. Use of pesticides should be minimized.
2. Use of fertilizers should be judicious.
3. Cropping techniques should be improved to prevent growth of weeds.
4. Special pits should be selected for dumping wastes.
5. Controlled grazing and forest management.
6. Wind breaks and wind shield in areas exposed to wind erosion.
7. Planning of soil binding grasses along banks and slopes prone to rapid erosion.



NOISE POLLUTION



NOISE POLLUTION

Noise is the unpleasant and undesirable sound which leads to discomfort in human beings. Due to increasing noise around the civilizations, noise pollution has become a matter of concern. Some of its major causes are vehicles, aircraft, industrial machines, loudspeakers, crackers, etc.

Types of Noise Pollution

Following are the three types of pollution:

- * Transport Noise
- * Neighbourhood Noise
- * Industrial Noise



CAUSES OF NOISE POLLUTION



Industrialisation has led to an increase in noise pollution as the use of heavy machinery such as generators, mills, huge exhaust fans are used, resulting in the production of unwanted noise.



Increased number of vehicles on the roads are the second reason for noise pollution.



Weddings, public gatherings involve loudspeakers to play music resulting in the production of unwanted noise in the neighbourhood.



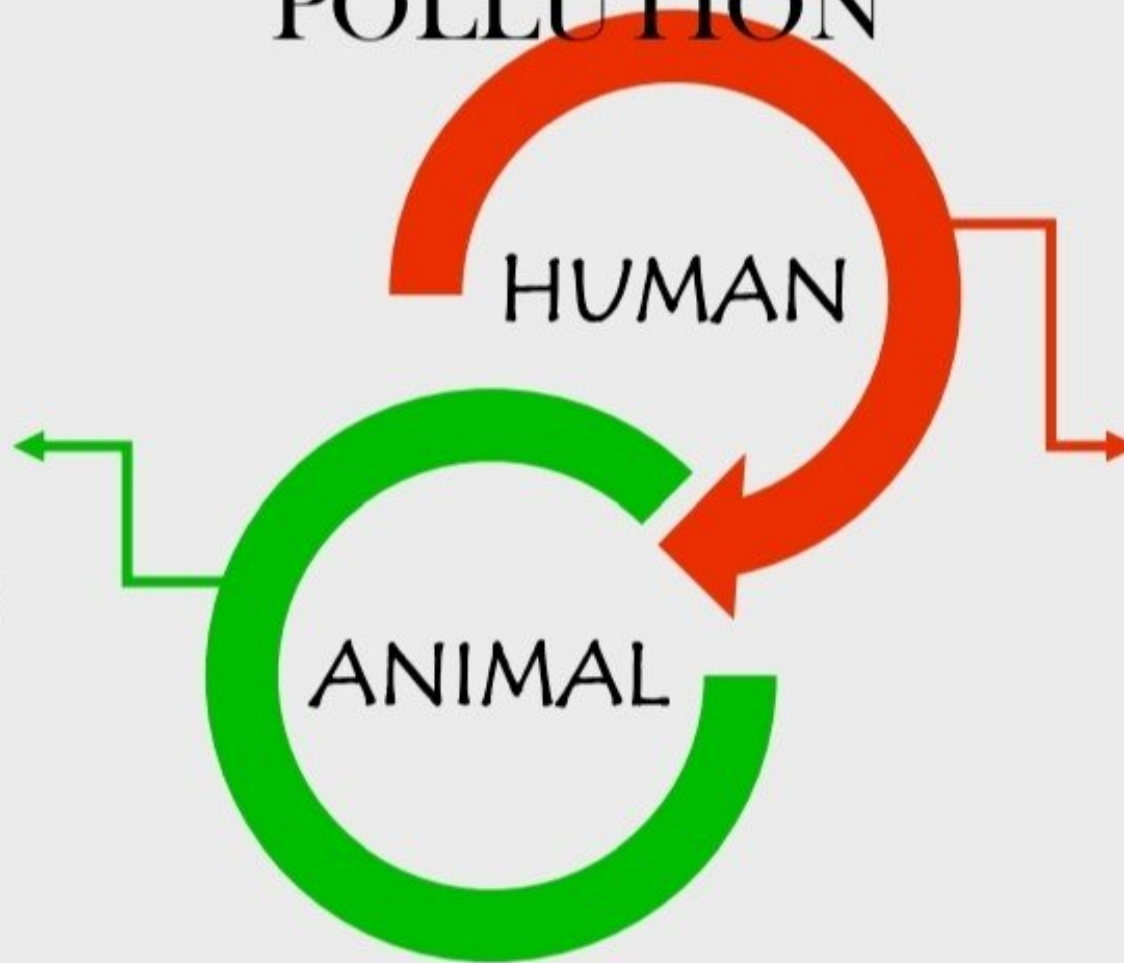
Mining, construction of buildings, etc add to the noise pollution



EFFECTS OF NOISE POLLUTION



- Noise pollution increases the risk of death by altering prey-predator behaviour (avoidance or detection)
- May interfere with navigation
- Also affects the reproductive behaviour
- Risk of hearing loss



- * High blood pressure
- * Hearing loss
- * May affect the circadian rhythm (sleep cycles)
- * Impair cognitive functions
- * Irritability, high stress

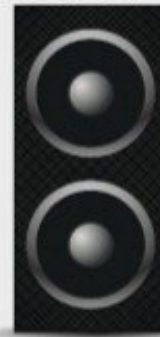


PREVENTIVE MEASURES OF NOISE POLLUTION



NO HONKING

STOP UNWANTED
HONKING



RESTRICT LOUD
SPEAKERS IN EVENTS



NOISY MACHINE
INSTALLED IN SOUND
PROOF CHAMBERS



SIRENS USE ONLY
EMERGENCY SERVICE



SILENCE ZONE BE
CREATED

