Sustainable development of waste lands

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SUSTAINABLE DEVELOPMENT OF WASTELANDS

Barren or uncultivated land, an ugly often devastated or barely inhabitable place or area

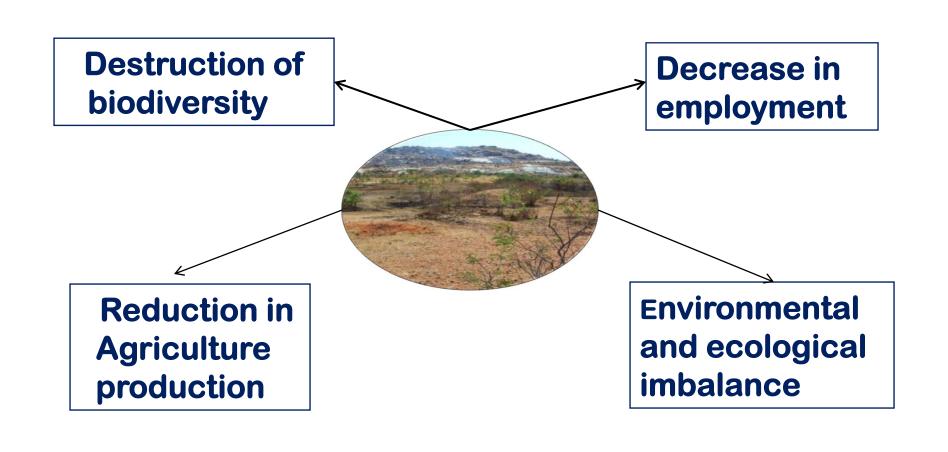
Types of wastelands

- *Sand dunes *Shallow gravelly
- *Soils of high pH *Fertile soils with moisture stress

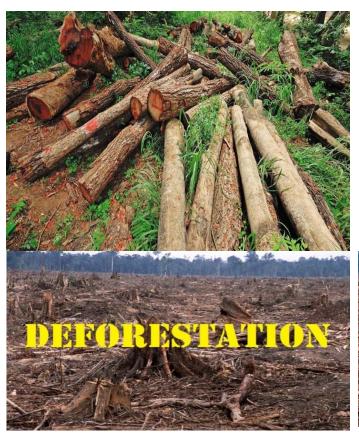








Causes for wasteland formation



- * Deforestation & overgrazing
- * Soil erosion & moisture scarcity
- * High or low pH due to soil composition, excessive irrigation and poor drainage
- * Severe biotic pressure and poor management



Strategies to combat wasteland formation

- *Soil and moisture conservation * Promoting vegetative cover
- *Protection from biotic pressure and fire
- *Enhancing soil fertility * Plant protection & optimal plant density
- *Timely harvest of the produce





Effective management of afforestation in wastelands

Soil and moisture conservation

- Contour bunding
- Staggered trenches
- **❖** Formation of farm ponds
- Gully plugging
- Continuous ridges and furrows along the contours

Tree planting – criteria for selecting of trees

- Soil and climatic adaptability
- Growth rate
- **❖** Biotic interference
- Multiple uses
- Value and demand for the produce

Increase in the area of wastelands is not due to erratic rainfall alone but also due to economical factors and technological factors which influence land utilization or under-utilization