

## 2 Soil Degradation And Agricultural Production Economic

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### 2 Soil Degradation And Agricultural

Soil degradation includes erosion, salinization (due to freshwater removal), soil loss following erosion after deforestation or overgrazing, "compaction and crusting (of soils), [which] can be caused by cattle trampling," and waterlogging with impaired water movement (Oldeman et al., 1991 ).

#### Soil Degradation - an overview | ScienceDirect Topics

Agriculture. When agriculture fields replace natural vegetation, topsoil is exposed and can dry out. The diversity and quantity of microorganisms that help to keep the soil fertile can decrease, and nutrients may wash out. Soil can be blown away by the winds or washed away by rains.

#### Soil Erosion and Degradation | Threats | WWF

Soil erosion can occur in two stages: 1) detachment of soil particles by raindrop impact, splash, or flowing water; and 2) transport of detached particles by splash or flowing water. Therefore, soil erosion is a physical process requiring energy, and its control requires certain measures to dissipate this energy.

#### Soil erosion: An agricultural production challenge ...

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Impact of Soil Degradation: The following are the impacts of soil degradation: 1. Degradation leads to reduction in crop yield in the affected lands and a possible decline in cropping intensity. 2. In extreme cases, soil becomes unfit for cultivation. 3. Silting of drainage, canals, rivers and reservoirs results in increased floods and droughts. 4.

#### What are the Main Causes of Soil Degradation?

12.2 Soil Degradation and Conservation Key Concepts Certain farming, ranching, and forestry practices can erode soil, but other practices can protect it. Desertification reduces productivity of arid lands. U.S. and international agricultural organizations promote soil conservation.

#### Soil and Agriculture

Land degradation processes: Different processes of land degradation also confound the available statistics on soil and/or land degradation. Principal processes of land degradation include erosion by water and wind, chemical degradation (comprising acidification, salinization, leaching etc.) and physical degradation (comprising crusting, compaction, hard-setting etc.).

#### Land Degradation: An overview | NRCS Soils

Leaving more land alone, despite the challenges of a growing population, would really help: it takes around 500 years for just 2.5cm of topsoil to be created. Taking land out of production would allow soil carbon to rebuild and become stable. Experts suggest rotating pastured land used by the meat and dairy industries so less is being used at once.

#### 5 possible solutions to soil degradation - Positive News ...

Following are some practises for controlling land degradation: 1. Strip farming: It is & practice in which cultivated crops are sown in alternative strips to prevent water movement. 2. Crop Rotation: It is one of the agricultural practice in which different crops are grown in same area following a rotation system which helps in replenishment of the soil.

#### Land Degradation: Meaning, Causes and Prevention of Land ...

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#### 12.2 Soil Degradation and Conservation Flashcards | Quizlet

Soil degradation is the loss of land's production capacity in terms of loss of soil fertility, soil biodiversity, and degradation. Soil degradation causes include agricultural, industrial, and commercial pollution; loss of arable land due to urban expansion, overgrazing, and unsustainable agricultural practices; and long-term climatic changes.

#### Soil Degradation - an overview | ScienceDirect Topics

The techniques to conserve soil are very simple and require implementation so as to reduce the dire environmental impacts. Some of the categories and ways to conserve the soil include: 1. Agricultural Soil Conservation. Agricultural soil conservation involves the practices that can be used by farmers to promote the health and quality of soils.

#### What is Soil Conservation and What are Various Ways To ...

Plow layer compaction—compaction of the surface layer—has probably occurred to some extent in all intensively worked agricultural soils. It is the result of a loss of soil aggregation that typically has three primary causes—erosion, reduced organic matter levels, and force exerted by the weight of field equipment.

#### Soil Tilth and Compaction - SARE

The objective is to reverse land degradation due to deforestation and inadequate land use/management in the tropics and sub-tropics through the promotion of improved land use systems and land management practices which provide win-win effects in terms of economic gains and environmental benefits, a greater agro-biodiversity, and improved conservation and environmental management and increased ...

#### Soil Carbon Sequestration | FAO SOILS PORTAL | Food and ...

Soil degradation is common in mountainous zones due to their rugged topography. This work aims to characterize mountainous ecosystem soils in Santa (Cameroon) and to evaluate their fertility status along the slope. Four soil profiles including P1= Dystric Protostagnic Gleysol (differentic); P2= ChromicDystric Cambisol (Clayic, differentic); P3= Chromic Dystric Cambisol (clayic, differentic ...

#### Land Characteristics and Agricultural Suitability Status ...

In agriculture, soil erosion refers to the wearing away of a field's topsoil by the natural physical forces of water and wind or through forces associated with farming activities such as tillage. Erosion, whether it is by water, wind or tillage, involves three distinct actions - soil detachment, movement and deposition.

#### Soil Erosion - Causes and Effects

Soil degradation means that soil quality has diminished, which causes ecosystem functions to decline. One third of the globe's land has degraded soil; especially the tropics and subtropics with around 500 million hectares. Soil degradation occurs due to physical, chemical, and biological forces. These forces can be natural and anthropogenic.

#### Soil regeneration - Wikipedia

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#### 12.2 Soil Degradation & Conservation - Quizlet

Land degradation is a process in which the value of the biophysical environment is affected by a combination of human-induced processes acting upon the land. It is viewed as any change or disturbance to the land perceived to be deleterious or undesirable. Natural hazards are excluded as a cause; however human activities can indirectly affect phenomena such as floods and bush fires.

#### Land degradation - Wikipedia

Sustainable agricultural production practices have therefore become imperative for reversing the trend of soil degradation and ensuring current and future global food security. 6. Soil pollution can put our health at risk.