

Restoration Of Degraded Land Concepts And Strategies 1st Edition

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Restoration Of Degraded Land Concepts

This book summarizes the present state of knowledge on and techniques for the restoration of degraded land ecosystems, including forests, rangelands, watersheds, river corridors, mine spoils, community land, etc. Information is also provided on the role of biotechnology in revegetation of degraded land, and the use of biofertilizers and microbial management in the restoration of soil fertility....

Restoration of degraded land: concepts & strategies.

Natural vegetation usually develops slowly in degraded land because of its unfavorable physical structure and chemical

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properties (TORDOFF et al. 2000, KRZAKLEWSKI & PIETRZYKOWSKI 2002) and...

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Vegetation is the key to restoration of degraded landscapes and its management will be the single most important consideration in any restoration project (refer Chapter 9). Vegetation is vital for stabilising soil, reducing watertables or maintaining habitat and biodiversity.

Restoration of Degraded Landscapes

Restoration of degraded agricultural land is achieved through several agronomic and biological techniques. Crop rotations, agro-forestry, reduced tillage, cover crops, vegetative filter strips, residue, canopy cover management and no-till are important among these (Lamb, Erskine, & Parrotta, 2005).

Restoration of Degraded Agricultural Land: A Review

objectives of land restoration and revegetation are: a) to restore the land and vegetation for increased food production, not only to support the present population, but also to provide for high population growth rates (2-3.6% per annum). Since present per capita income is low, (\$ 200 per person per

3.12 Land restoration and revegetation

Agriculture land is being degraded due to many reasons like deforestation, mining, misuse of fertilizers, and use of industrial water for irrigation purposes. This damage to ecosystem can be countered by adopting several soil restoration strategies. Major factors in land degradation which contribute to damaging the soil plant system are soil ...

Restoration of Degraded Soil for Sustainable Agriculture

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...

The basic principles of landscape restoration include controlling soil erosion, reducing losses of water and nutrients, sequestering carbon, strengthening biogeochemical cycles, managing soil pH and salt balance, enhancing biocomplexity, and creating disease-suppressive soil.

Land Restoration | ScienceDirect

Ecological restoration, as defined by The Society for Ecological Restoration (2002) is “the process of assisting the recovery of an ecosystem that has been degraded, damaged or destroyed”. In the literature, the terms restoration, rehabilitation, reclamation and remediation are often used interchangeably (Seabrook et al. 2011).

Progresses in restoration of post-mining landscape in ...

The assessment aims to enhance the knowledge base for policies for addressing land degradation, desertification and the restoration of degraded land. In January 2015, at IPBES 3, the Plenary approved the launch of the land degradation and restoration assessment together with an agreed scope.

Assessment Report on Land Degradation and Restoration | IPBES

Restoration should re-establish insofar as possible the ecological integrity of degraded aquatic ecosystems. Ecological integrity refers to the condition of an ecosystem -- particularly the structure, composition and natural processes of its biotic communities and physical environment.

Principles of Wetland Restoration | Wetlands Protection

...

Soil degradation is a process that lowers the current and/or future capacity of the soils to produce goods or services. Soil degradation can be mitigated if land is left for sufficiently long periods “in fallow” which enables biological restoration of soil characteristics that have become degraded, notably its porosity and nutrient content.

LAND REHABILITATION

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Restoring degraded land to combat environmental degradation requires the collection of vast quantities of germplasm (seed). Sourcing this material raises questions related to provenance selection, seed quality and harvest sustainability. Restoration guidelines ...

Seed supply for broadscale restoration: maximizing ...

Restoration ecology is the scientific study supporting the practice of ecological restoration, which is the practice of renewing and restoring degraded, damaged, or destroyed ecosystems and habitats in the environment by active human intervention and action. Effective restoration requires an explicit goal or policy, preferably an unambiguous one that is articulated, accepted, and codified.

Restoration ecology - Wikipedia

The Colorado Plateau is one of North America's five major deserts, encompassing 340,000 km² of the western United States, and offering many opportunities for restoration relevant to researchers and land managers in drylands around the globe. The Colorado Plateau is comprised of vast tracts of public land managed by local, state, and federal agencies that oversee a wide range of activities (e ...

Beyond traditional ecological restoration on the Colorado

...

A central premise of ecological restoration is that restoration of natural systems to conditions consistent with their recent evolutionary environments will prevent their further degradation while simultaneously conserving their native plants and animals (Society for Ecological Restoration 1993).

Ecosystem Restoration and Management: Scientific ...

Rehabilitation is required when the land is already degraded to such an extent that the original use is no longer possible and the land has become practically unproductive. Here longer-term and often more costly investments are needed to show any impact.

Degradation/Restoration | FAO SOILS PORTAL | Food and

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Introduction. A multitude of stressors associated with land use and economic activities contribute to the ecological deterioration of freshwater ecosystems (Ormerod et al., 2010), including habitat degradation, biological invasions and pollution by a wide range of chemicals (Millenium Ecosystem Assessment, 2005; Dudgeon et al., 2006; Vörösmarty et al., 2010; Carpenter, Stanley & Vander ...

Contribution of organic toxicants to multiple stress in ...

Storm runoff was increased by 6%, while storm soil loss was reduced by 9%. Land management changes also triggered shifts in annual runoff and soil erosion: Clear-cut (+1.796% runoff, +4.205% soil loss) and bare (+5.958% runoff, +21.055% soil loss) surfaces showed the most distinct changes when compared to undisturbed forest.

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