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Soils

Their Properties and
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THIRD EDITION



EDITED BY
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BRIAN W. MURPHY

Saltaffected Soils And Their Management

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Bhunia, Debashish Sengupta**



Salt-affected Soils And Their Management:

Salt-affected Soils and Their Management I. P. Abrol, Jai Singh Pal Yadav, F. I. Massoud, 1988-01-01 Origin classification and distribution of salt affected soils saline soils and their management sodic soils and their management salinity problems of the dryland regions water quality and crop production socio economic considerations in reclamation and management of salt affected soils **Salt-affected Soils and Their Management** I. P. Abrol, Jai Singh Pal Yadav, F. I. Massoud, 1988

Salt-affected Soils and Their Management Food and Agriculture Organization of the United Nations, J. S. P. Yadav, I. P. Abrol, 1980 Global status of salt-affected soils FAO, 2024-12-10 Salt affected soils characterized by high soluble salts saline or exchangeable sodium sodic impact plant growth and occur globally especially in arid and coastal regions Salinization stems from natural causes e.g. climate change sea level rise and human actions e.g. poor irrigation practices excessive water use FAO's Global Map of Salt Affected Soils reveals that over 1 381 million hectares 10.7 percent of global land are affected with Australia Argentina and Kazakhstan among the most impacted countries Increasing aridity and water demand amplify soil degradation risks particularly in developing regions Climate change and water scarcity threaten agricultural productivity with substantial crop yield losses observed in saline areas Halophytes and salt tolerant crops provide a foundation for saline agriculture yet many salt affected soils remain unprotected and inadequately regulated FAO's INSAS International Network of Salt Affected Soils underscores the need for updated data harmonized salinity measurements and sustainable management practices with enhanced training and policy frameworks Mitigation strategies like improved drainage soil amendments and the cultivation of salt tolerant plants are recommended Key recommendations include scaling sustainable practices investing in salt tolerant crop markets improving data collection and water quality monitoring conserving ecosystems and fostering cross sector collaboration Such integrated efforts aim to boost food production and resilience in affected regions while protecting vital ecosystems *Mapping of salt-affected soils - Technical manual* Food and Agriculture Organization of the United Nations, 2020-08-01 Salt affected soils such as saline or sodic soils are distributed in all continents at various levels of problem intensity They are soils with high amounts of soluble salts and or sodium ions An updated information of their distribution and drivers is a first step towards their sustainable management This book provides technical guidelines and approach for developing a harmonized multiscale soil information of salt affected soils The book is organized into three sections covering seven chapters The sections are sequentially arranged but independently designed to benefit focused readership who may want to go straight to any section Section 1 gives the background information It has three chapters covering existing literature on the characteristics and mapping methods for salt problems in the soil It is intended to illustrate the basic concepts linkage of the characteristics of salt affected soils with input data requirements for their mapping existing classification methods and global distribution of these soils Section 2 covers the methodological procedures for developing multiscale spatial information of salt affected soils It has two chapters

describing requirements input data preparation and the procedural steps for developing spatial information of salt affected soils It outlines how data from different sources and characteristics are harmonized and integrated to produce information of salt affected soils Section 3 covers information sharing and resources mobilization when developing information on salt affected soils It gives the guidelines for preparing spatial maps and steps for value addition to benefit end users of the information It also contains a generic training program for building technical capacity for mapping salt affected

Salt Affected Soils and Their Management D. Prasad,Ravi Prakash Maurya,2014

Crop Production in Salt Affected Soils I.C. Gupta,S.K. Gupta,2019-04-01 The course work for various degree programs are constantly revised and or new courses added so that the future teachers researches and planners are able to face the new emerging challenges The environmental concerns of irrigated agriculture in the form of water logging and soil salinity are expanding and impacting food grains production These challenges are commonly articulated at various forums Thus reclamation management and crop production practices of waterlogged salt affected soils have been introduced as a subject in agricultural and agricultural engineering colleges Since there is a general lack of a good textbook on this subject authors have attempted to fill this gap through the current publication titled Crop Production in Salt Affected Soils It comprehensively deals with the fundamentals of land reclamation principles and crop production practices It has been divided into 16 Chapters The book begins with general introduction comprising of categorization of salt affected soils extent and distribution and nature and physical chemical and biological properties Other chapters includes basic information on on farm land development hydrology irrigation practices drainage methods leaching soil salinization chemical amendments and new innovative techniques including agronomic and cultural practices related to land reclamation Crop production practices for select cereal oil seeds sugar fiber and forage green manure crops grasses and forest plantations are also included Chapter sixteen covers the economic evaluation and social issues involved in land reclamation programs A Glossary of terms has been added for quick overview of the terms used in the book The textbook designed and developed for the undergraduate post graduate students of agricultural agricultural engineering has been profusely illustrated so that students are able to visualize the processes and phenomena being dealt with Besides serving as a text book it will prove to be a handy resource book to conduct specialized training programs on land reclamation We believe that the book will find its due place in the shelves of students and teachers field functionaries and college libraries of state agricultural universities and civil engineering colleges

Saline and Alkali Soils and Their Management ,2001 In Indian context

Bioremediation of Salt Affected Soils: An Indian Perspective Sanjay Arora,Atul K. Singh,Y.P. Singh,2017-03-31 This edited volume focuses on the characterization reclamation bioremediation and phytoremediation of salt affected soils and waterlogged sodic soils Innovative technologies in managing marginal salt affected lands merit immediate attention in the light of climate change and its impact on crop productivity and environment The decision making process related to reclamation and management of vast areas of salt affected soils encompasses

consideration of economic viability environmental sustainability and social acceptability of different approaches The chapters in this book highlight the significant environmental and social impacts of different ameliorative techniques used to manage salt affected soils Readers will discover new knowledge on the distribution reactions changes in bio chemical properties and microbial ecology of salt affected soils through case studies exploring Indian soils The contributions presented by experts shed new light on techniques such as the restoration of degraded lands by growing halophyte plant species diversification of crops and introduction of microbes for remediation of salt infested soils and the use of fluorescent pseudomonads for enhancing crop yields

Soil Salinity Management in Agriculture S. K. Gupta, Megh R. Goyal, 2017-03-16 This important volume *Soil Salinity Management in Agriculture* addresses the crucial issue of soil salinity of potential farmland and provides a comprehensive picture of the saline environment and plant interactions along with management and reclamation methods and policies With contributions from researchers from the fields of agricultural chemistry soil science biotechnology agronomy environmental sciences and plant breeding and genetics the volume emphasizes a multidisciplinary approach

Methods for Assessment of Soil Degradation Rattan Lal, Winfried E. H. Blum, C. Valentin, B.A. Stewart, 2020-11-26 Soil degradation has serious global impacts on agronomic economic and sociopolitical conditions however statistics regarding the degree of these impacts has been largely unreliable This book aims to standardize the methodology for obtaining reliable and objective data on soil degradation It will also identify and develop criteria for assessing the severity of soil degradation providing a realistic scenario of the problem

Soil Health and Environmental Sustainability Pravat Kumar Shit, Partha Pratim Adhikary, Gouri Sankar Bhunia, Debashish Sengupta, 2022-09-27 This book demonstrates the measurement monitoring mapping and modelling of soil pollution and land resources This book explores state of the art techniques based on open sources software radioactive wastes microbiology of soil and sediments soil salinity and sodicity pollution from landfill sites soil erosion and contamination from agricultural activities heavy metal pollution and health risk environmental impact and risk assessment sustainable land use landscape management and governance soil degradation and risk assessment agricultural soil pollution pollution due to urban activities soil pollution by industrial effluents and solid wastes pollution control and mitigation in extreme environments The content of this book is of interest to researchers professionals and policy makers whose work is in soil science and agriculture practices The book equips with the knowledge and skills to tackle a wide range of issues manifested in geographic data including those with scientific societal and environmental implications

Guideline for Salinity Assessment, Mitigation and Adaptation Using Nuclear and Related Techniques Mohammad Zaman, Shabbir A. Shahid, Lee Heng, 2018-11-28 This open access book is an outcome of the collaboration between the Soil and Water Management Crop Nutrition Section Joint FAO IAEA Division of Nuclear Techniques in Food and Agriculture Department of Nuclear Sciences and Applications International Atomic Energy Agency IAEA Vienna Austria and Dr Shabbir A Shahid Senior Salinity Management Expert Freelancer based in United Arab Emirates The objective of this book is to develop

protocols for salinity and sodicity assessment and develop mitigation and adaptation measures to use saline and sodic soils sustainably. The focus is on important issues related to salinity and sodicity and to describe these in an easy and user friendly way. The information has been compiled from the latest published literature and from the authors publications specific to the subject matter. The book consists of six chapters. Chapter 1 introduces the terms salinity and sodicity and describes various salinity classification systems commonly used around the world. Chapter 2 reviews global distribution of salinization and socioeconomic aspects related to salinity and crop production. Chapter 3 covers comprehensively salinity and sodicity adaptation and mitigation options including physical, chemical, hydrological and biological methods. Chapter 4 discusses the efforts that have been made to demonstrate the development of soil salinity zones under different irrigation systems. Chapter 5 discusses the quality of irrigation water, boron toxicity and relative tolerance to boron, the effects of chlorides on crops. Chapter 6 introduces the role of nuclear techniques in saline agriculture.

Advances in Rice Research for Abiotic Stress Tolerance Mirza Hasanuzzaman, Masayuki Fujita, Kamrun Nahar, Jiban Krishna Biswas, 2018-11-12. *Advances in Rice Research for Abiotic Stress Tolerance* provides an important guide to recognizing, assessing and addressing the broad range of environmental factors that can inhibit rice yield. As a staple food for nearly half of the world's population and in light of projected population growth, improving and increasing rice yield is imperative. This book presents current research on abiotic stresses including extreme temperature variance, drought, hypoxia, salinity, heavy metal, nutrient deficiency and toxicity stresses. Going further, it identifies a variety of approaches to alleviate the damaging effects and improving the stress tolerance of rice. *Advances in Rice Research for Abiotic Stress Tolerance* provides an important reference for those ensuring optimal yields from this globally important food crop. Covers aspects of abiotic stress from research history, practical field problems faced by rice and the possible remedies to the adverse effects of abiotic stresses. Provides practical insights into a wide range of management and crop improvement practices. Presents a valuable single volume sourcebook for rice scientists dealing with agronomy, physiology, molecular biology and biotechnology.

Plant-Microbial Interactions for Sustainable Agriculture Arvind Kumar Rai, Priyanka Chandra, Nirmalendu Basak, Parul Sundha, Rajender Kumar Yadav, 2024-11-13. Hunger, food insecurity and malnutrition are major challenges in many parts of the world. Soil degradation and increased water stress worldwide are the major obstacle in the way of the resilient agri-food system. It has been estimated that across the globe over 800 Mha of land is affected by salts which include both salinity and alkalinity. Under stress conditions, soil, plant and microorganisms form a unique mutualistic relationship in and around the rhizosphere. Soil microorganisms inhabiting the rhizosphere, called Plant Growth Promoting Rhizobacteria (PGPR), possesses the potential to enhance plant growth through several mechanisms and also alleviate the effect of abiotic stresses on plants. Hence, this book aims to bring out a comprehensive collection of scientific research which includes the functions of the rhizosphere to harness plant-microbe interactions and PGPR for abiotic stress mitigation and enhancing crop performance.

Soil Fertility And Nutrient

Management In Horticulture Chittaranjan Sarangi, Gour Hari Santra, Biswanath Sahoo, 2017-09-08 This book consists of two parts soil fertility and nutrient management as applied to agriculture and horticulture The first part consists of the plant nutrients principles of their role in nutrition of horticultural crops and behavior in soil with reference to their availability Problems of soil solution reaction and salt content are discussed All the soil properties excluding two products of weathering soil texture and depth are subject to manipulation These can be scientifically managed for profitable crop production avoiding pollution The second part elucidates their management with the principles developed in the previous part profitably to sustain agricultural and horticultural production without harming the environment The principles spread over 20 chapters are clearly elucidated in lucid manner with pictures figures and tables for easy and comprehensive understanding Further readings are suggested at the end of the book

Agricultural Land Improvement: Amelioration and Reclamation - Volume II Boris Stepanovich Maslov, 2009-09-23 Agricultural Land Improvement Amelioration and Reclamation theme is a component of Encyclopedia of Food and Agricultural Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The theme on Agricultural Land Improvement Amelioration and Reclamation has two volumes with contributions from distinguished experts in the field discusses amelioration practices and measures for radical improvement of unfavorable hydrologic soil and agroclimatic conditions with a view to the most efficient use of land resources The content of the theme is organized with state of the art presentations covering the following aspects of the subject Necessity of Development of Land Reclamation Irrigation Drainage of Farmlands Chemical Amelioration of Soils Biological and Agrotechnical Amelioration which are then expanded into multiple subtopics each as a chapter These volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Biosaline Agriculture as a Climate Change Adaptation for Food Security Redouane Choukr-Allah, Ragab Ragab, 2023-02-27 This book presents recent research work on Biosaline Agriculture presented during First International Forum on Biosaline Agriculture in Laayoune Morocco from May 3rd to May 4th 2019 The aim of this book is to showcase the global potential of Biosaline agriculture provide an update on the development of recent innovations in the field of Biosaline agriculture the best management practices to safely use brackish and saline water highlight the use of non conventional water in marginal environment production and the current advanced technologies of desalination of brackish and seawater The different chapters will also discuss solutions that are adapted to local conditions as part of a sustainable development perspective The book provides up to date technical and scientific data on growing crops under marginal environment so as to encourage the dissemination of this knowledge in the best practices to increase the productivity in Biosaline agriculture in view of the potential to contribute to food security The book is expected to stimulate interest in the non conventional water resources and crops among junior and senior researchers and among those who are increasingly

focused on exploiting marginal environments It will also be of interest to decision makers and the public and private sectors to jointly address the issues of food security especially of the poor and vulnerable people living in marginal environments worldwide by providing innovative technology transfer *The Environment* Mohan K. Wali, Fatih Evrendilek, M. Siobhan Fennessy, 2009-07-30 Strongly grounded in the scientific method and evidence *The Environment Science Issues and Solutions* presents an organized accessible building block approach that introduces the principles of ecology This book examines the effects of technology use and the unprecedented economic growth and development that has tipped the natural balance of the environment resulting in serious local regional and global environmental problems This comprehensive text explores the need for interrelated long term solutions for the prevention and mitigation of environmental problems **Principles and Applications of Environmental Biotechnology for a Sustainable Future** Ram Lakhan Singh, 2016-10-14 This textbook on Environmental Biotechnology not only presents an unbiased overview of the practical biological approaches currently employed to address environmental problems but also equips readers with a working knowledge of the science that underpins them Starting with the fundamentals of biotechnology it subsequently provides detailed discussions of global environmental problems including microbes and their interaction with the environment xenobiotics and their remediation solid waste management waste water treatment bioreactors biosensors biomining and biopesticides This book also covers renewable and non renewable bioenergy resources biodiversity and its conservation and approaches to monitoring biotechnological industries genetically modified microorganism and foods so as to increase awareness All chapters are written in a highly accessible style and each also includes a short bibliography for further research In summary this textbook offers a valuable asset allowing students young researchers and professionals in the biotechnology industry to grasp the basics of environmental biotechnology

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