

Crop Production In Saline Environments Global And Integrative Perspectives

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Crop Production In Saline Environments Global And crop production in saline environments global and improving crop growth in saline environments the united nations 2017 reported that the worlds population will increase from the current 7 6 billion to 9 8 billion by 2050 thus food production needs to be increased by 60

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Crop Production In Saline Environments : Global And ...

Sep 01, 2020 crop production in saline environments global and integrative perspectives Posted By C. S. LewisMedia TEXT ID 574b3eac Online PDF Ebook Epub Library Crop Improvement And Sustainable Production

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Crop Production in Saline Environments: Global and ...

Crop improvement and sustainable production. This work aims to contribute to sustainable food production in a changing climate in marginal environments. The overall goal is to increase adaptive capacities, livelihoods and food security of smallholder farmers and rural communities. Areas of applied research: Crop diversification using underutilized, stress-tolerant crops for food, feed and biofuel

and different types of saline water, including reject brine and sea water;

Crop improvement and sustainable production ...

Description. This publication serves as a reference guide for Member States and interested specialized readers wishing to work on agriculture in dry and saline environments, particularly those located in the Middle East region.

Challenges and Opportunities for Crop Production in Dry ...

Challenges and Opportunities for Crop Production in Dry and Saline Environments in ARASIA Member States: Specific Safety Requirements: FAO/IAEA: Amazon.sg: Books

Strategies for Managing Crop Production in Saline Environments; Enhancing Salt Tolerance in Crops Through Molecular Breeding; Molecular Approaches to Improve Salt Resistance in Crops; Can the Quest for Drought Tolerant Crops Avoid Arabidopsis; Use and Reuse of Saline - Sodic Waters for Irrigation of Crops; Comprehensive reclamation of Salt - Affected Soils in China 's; Management of Soil Salinity and Alkalinity Problems in India; Modeling Pumped Water Salinity and Sait Water Upconing; Soil Salinity in south India: Problems and Solutions; Productivity Enhancement in the Salt - Affected Lands of Joint Satiana Pilot Project Area of Pakistan; The Use of Saline Water in Agriculture in the Near East and North Africa Region; Salt, Water, and Groundwater Management Models to Determine Sustainable Cropping Patterns in Shallow Saline Groundwater Regions of Australia; Crop Production in Ares with Saline Soils and Shallow saline Groundwater in the San Jaquim Valley of California; Progress in Plant Salinity Resistance Research;

Food production on present and future saline soils deserves the world ' s attention particularly because food security is a pressing issue, millions of hectares of degraded soils are available worldwide, freshwater is becoming increasingly scarce, and the global sea-level rise threatens food production in fertile coastal lowlands. Future of Sustainable Agriculture in Saline Environments aims to showcase the global potential of saline agriculture. The book covers the essential topics, such as policy and awareness, soil management, future crops, and genetic developments, all supplemented by case studies that show how this knowledge has been applied. It offers an overview of current research themes and practical cases focused on enhancing food production on saline lands. FEATURES Describes the critical role of the revitalization of salt-degraded lands in achieving sustainability in agriculture on a global scale Discusses practical solutions toward using drylands and delta areas threatened by salinity for sustainable food production Presents strategies for adaptation to climate change and sea-level rise through food production under saline conditions Addresses the diverse aspects of crop salt tolerance and microbiological associations Highlights the complex problem of salinity and waterlogging and safer management of poor-quality water, supplemented by case studies A PDF version of this book is available for free in Open Access at www.taylorfrancis.com. It has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

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.

In biology, the very big global and thevery small molecular issues currently appear to be in the limelight ofpublic interest and research funding policies. They are in danger of drifting apart from each other. They apply very coarse and very fine scaling, respectively, but coherence is lost when the various intermediate levels of different scales are neglected. Regarding SALINITY we are clearly dealing with a global problem, which due to progressing salinization of arable land is of vital interest for society. Explanations and basic understanding as well as solutions and remedies may finally lie at the molecular level. It is a general approach in science to look for understanding of any system under study at the next finer (or "lower") level of scaling. This in itself shows that we need a whole ladder of levels with increasingly finer steps from the global impact to the molecular bases of SALINITY relations. It is in this vein that the 22 chapters of this book aim at providing an integrated view of SALINITY.

The land degradation due to salinity and waterlogging is a global phenomenon, afflicting about one billion hectares within the sovereign borders of at least 75 countries. Besides staring at the food

security, it has far reaching and unacceptable socio-economic consequences since a large proportion of this land is inhabited by smallholder farmers. The anthropogenic-environmental changes and the climate change are further adding to the problem of salinity and waterlogging. The phenomenon of sea-level rise will bring more areas under waterlogged salinity due to inundation by sea water. Thus, dealing with the salinity in reality is becoming a highly onerous task owing to its complex nature, uncertainty and differential temporal and spatial impacts. Nevertheless, with the need to provide more food, feed, fuel, fodder and fiber to the expanding population, and non-availability of new productive land, there is a need for productivity enhancement of these lands. In fact, the salt-affected and waterlogged lands cannot be neglected since huge investments have been made throughout the world in the development of irrigation and drainage infrastructure. The social, economic and environmental costs being high for the on- and off-farm reclamation techniques, saline agriculture including agroforestry inculcated with modern innovative techniques, is now emerging as a potential tool not only for arresting salinity and waterlogging but for other environmental services like mitigate climate change, sequester carbon and biodiversity restoration. This publication attempts to address a wide range of issues, principles and practices related to the salinity involved in rehabilitation of waterlogged saline soils and judicious use of saline waters including sea water. Many of the site specific case studies typical to the saline environment including coastal ecologies sustaining productivity, rendering environmental services, conserving biodiversity and mitigating climate change have been described in detail. Written by leading researchers and experts of their own fields, the book is a must, not only for salinity experts but also for policy makers, environmentalists, students and educationists alike. More importantly, it contributes to reversing the salinity trends and teaches to sustain with salinity ensuring the livelihood of resource-poor farming families living in harsh ecologies including coastal areas which are more vulnerable to climate change.

World population is growing at an alarming rate and is anticipated to reach about six billion by the end of year 2050. On the other hand, agricultural productivity is not increasing at a required rate to keep up with the food demand. The reasons for this are water shortages, depleting soil fertility and mainly various abiotic stresses. The fast pace at which developments and novel findings that are recently taking place in the cutting edge areas of molecular biology and basic genetics, have reinforced and augmented the efficiency of science outputs in dealing with plant abiotic stresses. In depth understanding of the stresses and their effects on plants is of paramount importance to evolve effective strategies to counter them. This book is broadly divided into sections on the stresses, their mechanisms and tolerance, genetics and adaptation, and focuses on the mechanistic aspects in addition to touching some adaptation features. The chief objective of the book hence is to deliver state of the art information for comprehending the nature of abiotic stress in plants. We attempted here to present a judicious mixture of outlooks in order to interest workers in all areas of plant sciences.

This publication serves as a referencing guide for Member States and interested specialized readers wishing to work on agriculture in dry and saline environment, in particular located in the Middle East region. All information and instructions given in this guide are based on successful and sound practices applied in pertaining Member States for sustainable cropping of salt affected soils. It will help scientists and farmers to select management alternatives most efficient for agriculture in saline environments within their own countries. The publication also focuses on the possible use of isotopes techniques in dealing with salinity and droughts conditions affecting crop production.

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