

CROP PRODUCTION IN SALINE ENVIRONMENTS

GLOBAL
AND
INTEGRATIVE
PERSPECTIVES

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Crop Production In Saline Environments Global And Integrative Perspectives

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Crop Production In Saline Environments Global And Integrative Perspectives:

Crop Production In Saline Environments : Global Integrative Perspectives Indian Reprint Goyal, Sham S., Surinder K. & Rains, William D, 2004-01-01 Crop Production in Saline Environments Sham S. Goyal, S. K. Sharma, D. W. Rains, 2003 Crop Production in Saline Environments Global and Integrative Perspectives examines soil salinity problems in international crop production analysing integrative approaches that have been used to overcome and mitigate the adverse effects This unique book provides you with state of the art information on the nature and extent of soil salinization specific amelioration approaches and the potential integrative options you need to manage future salinity problems An international panel of authors addresses concerns about soil salinity in China India Pakistan Africa Siberia and California s San Joaquin Valley presenting multidisciplinary solutions that really work Crop Production in Saline Environments presents state of the art information on the nature and extent of soil salinization around the world with specific amelioration approaches being used in different regions The book includes area maps flow charts field photographs and case studies from major salt affected arable areas of the world addressing vital issues such as enhancing salt tolerance through molecular breeding using Arabidopsis to improve drought stress tolerance using saline sodic waters for irrigation modelling pumped water salinity and salt water upcoming determining sustainable cropping patterns in shallow groundwater regions and much more Crop Production in Saline Environments is an essential resource for agricultural scientists engineers practitioners policymakers and managers The book also lends itself to use in graduate and undergraduate courses in agronomy plant physiology soil sciences plant breeding and plant biotechnology emphasizing abiotic plant stress and its management **Crop Production in Saline Environments** Sham S. Goyal, S. K. Sharma, D. W. Rains, 2003 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 Salt 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 Areas with Saline Soils and Shallow saline Groundwater in the San Joaquin Valley of California Progress in Plant Salinity Resistance Research **Innovative Saline Agriculture** J.C. Dagar, P.C. Sharma, D.K. Sharma, A.K. Singh, 2016-08-10 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 leaving in harsh ecologies including coastal areas which are more vulnerable to climate change

Improving crop growth and water productivity on salt-affected soils in the lower Karkhen river basin. , *Genetic and Production Innovations in Field Crop Technology* Manjit S. Kang, 2005-12-15 Get cutting edge information to improve crop breeding and productivity Crop improvement will become progressively important over the next few decades as the world's population is expected to top 10 billion people with more than eight billion in developing countries alone *Genetic and Production Innovations in Field Crop Technology*

Handbook of Plant and Crop Physiology, Third Edition Mohammad Pessarakli, 2014-03-21 Continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the second edition of the Handbook of Plant and Crop Physiology necessitating a new edition to cover the latest advances in the field Like its predecessors the Third Edition offers a unique complete collection of topics in plant and crop physiology serving as an up to date resource in the field This edition contains more than 90 percent new material and the remaining 10 percent has been updated and substantially revised Divided into nine parts to make the information more accessible this handbook covers the physiology of plant and crop growth and development cellular and molecular aspects and production processes It addresses the physiological responses of plants and crops to environmental stresses heavy metals and agrichemicals presents findings on small RNAs in response to temperature stress and discusses the use of bioinformatics in plant crop physiology

The book deals with the impacts of rising CO₂ levels and climate change on plant crop growth development and production. It also offers guidance on plants and crops that can be successfully cultivated under more stressful conditions presented in six chapters that examine alleviation of future food security issues. With contributions from 105 scientists from 17 countries, this book provides a comprehensive resource for research and for university courses covering plant physiological processes ranging from the cellular level to whole plants. The content provided can be used to plan, implement and evaluate strategies for dealing with plant and crop physiology problems. This edition includes numerous tables, figures and illustrations to facilitate comprehension of the material as well as thousands of index words to further increase accessibility to the desired information.

Guidelines for brackish water use for agricultural production in the Near East and North Africa region Food and Agriculture Organization of the United Nations, Arab Water Council, 2023-01-26. Water scarcity is one of the major challenges in the 19 countries of the Near East and North Africa (NENA) region. The lack of water is affecting important irrigated areas, limiting the increase of food production needed to address the growing demand due to population growth. In most countries of the NENA region, the need to use non-conventional water resources including brackish water is well recognized. Brackish water is loosely defined as water that is more saline than freshwater but less saline than seawater. It covers a large range of salinity levels from 500 to 30 000 mg/l of total dissolved solids (TDS). Despite the presence of large amounts of brackish water and its potential for use in growing a number of crops, it is only used in limited amounts for irrigation. The successful use of brackish water for irrigation requires a basic understanding of scientific principles affecting the interactions among the climate, the applied water, the soil, the crop and the environment. Equally important is the application of suitable technology and management practices that will facilitate the optional use of this poor quality water. The successful use of brackish water requires a higher level of management and likely the adoption of new irrigation management practices. Because climate, water quality, soil type and crop tolerance to salinity vary from location to location, guidelines with some degree of site-specific flexibility must be developed.

Turfgrass Water Conservation Stephen T. Cockerham, Bernd Leinauer, 2011-01-01. Water is an increasingly valuable and limited resource, often perceived as being wasted on turfgrass. This much anticipated second edition brings clear, current, science-based information on turfgrass management and water conservation to turf managers and researchers alike. Inside you'll find a look at the current understanding of water use as well as new technologies being researched to reduce water use by turfgrass. Attention is paid to water quality and turfgrass as a key part of the urban environment; how integrating turfgrass with other landscape uses of water can be part of a conservation plan; and how various water qualities including reclaimed water can be part of a management plan. Chapters also cover advances in drought, heat and salinity stress tolerance; the role of water in modified root zone media and native soils; water management technologies; considerations for construction and management of urban green spaces including parks and golf courses; water depletion; pesticide and nutrient runoff. A chapter summarizing the

practical application of the science in each chapter rounds out the text presenting the information in an immediately useable format Includes 10 tables and figures 20 color photos a U S customary to metric conversion table and an 8 page glossary

Climate Risk and Sustainable Water Management Qihong Tang,Guoyong Leng,2022-04-07 Climate change is leading to changing patterns of precipitation and increasingly extreme global weather There is an urgent need to synthesize our current knowledge on climate risks to water security which in turn is fundamental for achieving sustainable water management Climate Risk and Sustainable Water Management discusses hydrological extremes climate variability climate impact assessment risk analysis and hydrological modelling It provides a comprehensive interdisciplinary exploration of climate risks to water security helping to guide sustainable water management in a changing and uncertain future The relevant theory is accessibly explained using examples throughout helping readers to apply the knowledge learned to their own situations and challenges This textbook is especially valuable to students of hydrology resource management climate change and geography as well as a reference textbook for researchers civil and environmental engineers and water management professionals concerned with water related hazards water cycles and climate change

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