

# **CROP PRODUCTION IN SALINE ENVIRONMENTS**

GLOBAL  
AND  
INTEGRATIVE  
PERSPECTIVES

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# Crop Production In Saline Environments Global And Integrative Perspectives

**R Barnett**



## **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  
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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 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.

*Genetic and Production Innovations in Field Crop Technology* Manjit S. Kang, 2005-12-09. 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: New Developments in Theory and Practice* tackles this enormous challenge by detailing the latest available research and innovations for crop breeders and physiologists for the twenty first century. Respected multidisciplinary scientists comprehensively discuss cutting edge advances in field crop technology and genetic production as they keep an eye on the goal of providing nutrition to a hungry world. *Genetic and Production Innovations in Field Crop Technology* emphasizes an integrated approach to solve global crop production problems and increase crop productivity. Crop research experts review methods of globally improving crop yield, food product efficiency and providing adequate nutrition in diet. The authors discuss various types of field crops including corn, soybeans, winter wheat, cassavas, rubber, sunflowers and barley as well as review the exciting innovations on the food production horizon. The text is extensively referenced and includes useful graphs and tables to clearly present data. *Genetic and Production Innovations in Field Crop Technology* presents visionary articles by authorities in agricultural sciences, statistical design, axioms and modern plot techniques.

discussions of integration of crop physiology and plant breeding information on systematic collection and preservation of germplasm explanations of genetic diversity in soybeans corn breeding and production research including the economics in the United States research on cassava breeding in less favorable environments to alleviate poverty strategies for improving yielding potential of rubber in sub optimal environments information on fine tuning wheat genotype by environment interaction methodology reviews of QTL identification mega environment classification and effective strategies for marker based selection via GGE biplot analyses research on statistical properties and practical usefulness of the Scheffe Calinski and Shukla models relative to genotype by environment interaction Genetic and Production Innovations in Field Crop Technology New Developments in Theory and Practice belongs in every agricultural university library Crop breeders geneticists agronomists and horticulturists educators and students will find this an invaluable research source for now and for the future

*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 CO<sub>2</sub> 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 Ecophysiology and Responses of Plants under Salt Stress Parvaiz Ahmad, M.M. Azooz, M.N.V.

Prasad, 2012-11-09 This book will shed light on the effect of salt stress on plants development proteomics genomics genetic engineering and plant adaptations among other topics Understanding the molecular basis will be helpful in developing selection strategies for improving salinity tolerance The book will cover around 25 chapters with contributors from all over the world *Improving crop growth and water productivity on salt-affected soils in the lower Karkhen river basin.* ,

*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

*Adaptations and Responses of Woody Plants to Environmental Stresses* Rajeev Arora, 2004-08-23 Resource added for the Landscape Horticulture Technician program 100014

[Climate Risk and Sustainable Water Management](#) Qiuhong 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

**Plant Root Interaction With Associated Microbiomes to Improve Plant Resiliency and Crop Biodiversity** Nikolay Vassilev, Eligio Malusà, Davide Neri, Xiangming Xu, 2021-09-10

*Plant Biotechnology in Ornamental Horticulture* Yi Li, Yan Pei, 2007-02-28 Find out how biotechnology can produce more nutritious fruits and vegetables more colorful flowers and grass that needs less water and mowing Plant Biotechnology in Ornamental Horticulture presents an in depth overview of the key scientific and technical advances issues and challenges in one of the fastest growing segments of

**Cropping Systems** Anil Shrestha, 2004-02-13 Learn the fundamentals as well as

in depth details of agricultural cropping systems from around the globe Cropping Systems Trends and Advances is a comprehensive review of past and present research efforts in North America and other parts of the world It brings together biological economic sociological and technical aspects of cropping systems in a single source to provide a reference unlike any other on the subject that is available today This valuable book also points to future directions that cropping systems research needs to take in order to increase sustainable agriculture and feed the growing world population Charts tables and illustrations make the information easy to access and understand An ideal textbook for graduate and undergraduate courses in agronomy as well as a comprehensive reference for professionals involved in cropping systems research Cropping Systems Trends and Advances is a book you ll refer to again and again Topics covered in this well referenced and thoughtfully indexed book include emerging trends in cropping systems research designing resource efficient cropping systems soil quality and fertility tillage root dynamics water quality concerns nitrogen use efficiency precision agriculture agricultural biotechnology weed biology and management integrated pest management the important role that cover crops can play key indicators for assessing nitrogen use efficiency in cereal based agroecosystems the implications of elevated carbon dioxide induced changes in agroecosystem productivity and a great deal more

#### **Enhancing the Efficiency of Nitrogen Utilization in**

**Plants** Sham S. Goyal, Rudolf Tischner, 2006-08-22 The latest advancements and innovations in regulating the nitrogen levels in your crops Enhancing the Efficiency of Nitrogen Utilization in Plants examines current research to present an overview of inorganic nitrogen uptake and metabolism in plant life and crop production This comprehensive resource is divided into sections for quick and easy reference focusing on physiology and adaptive mechanisms molecular genetics and applied aspects The world s leading experts in agronomy crop science and plant physiology analyze the most effective methods and management practices to ensure maximum plant growth and production Enhancing the Efficiency of Nitrogen Utilization in Plants develops links between basic and applied research and practical crop production This unique book addresses a wide range of topics that relate to nitrogen use efficiency and to plant and crop responses to applications of nitrogen via fertilizers including nitrogen acquisition and reduction crop rotation molecular approaches genetics and markers balanced fertilization and controlled release fertilizers nitrogen decline supply and demand crop breeding radiation use nutrient deficiency and toxicity nitrate induction and signaling nitrogen transport and nitrogen use at the leaf and canopy level Enhancing the Efficiency of Nitrogen Utilization in Plants examines plant responses to changes in the supply of the two inorganic nitrogen sources of nitrate and ammonium root system control mechanisms of nitrogen uptake nitrate uptake and reduction in higher and lower plants how nitrogen affects biomass production in a canopy nitrogen s effects on radiation interception and radiation use efficiency senescence and photosynthesis the regulation of nitrogen and carbon metabolisms by sugars and nitrogen metabolites integrated nitrogen fertilization the use of legumes for soil improvement root system control mechanisms fertility and crop nutrient demand chemical and biological processes that influence nitrogen transformation or

loss the use of simulation models to measure water and nutrient transport in soils and much more Enhancing the Efficiency of Nitrogen Utilization in Plants is an invaluable classroom aid for academics working in plant physiology and agronomy and an essential professional resource for researchers working in plant and crop production **Plant Abiotic Stress Tolerance**

Mirza Hasanuzzaman, Khalid Rehman Hakeem, Kamrun Nahar, Hesham F. Alharby, 2019-04-04 Plants have to manage a series of environmental stresses throughout their entire lifespan Among these abiotic stress is the most detrimental one that is responsible for nearly 50% of crop yield reduction and appears to be a potential threat to global food security in coming decades Plant growth and development reduces drastically due to adverse effects of abiotic stresses It has been estimated that crop can exhibit only 30% of their genetic potentiality under abiotic stress condition So this is a fundamental need to understand the stress responses to facilitate breeders to develop stress resistant and stress tolerant cultivars along with good management practices to withstand abiotic stresses Also a holistic approach to understanding the molecular and biochemical interactions of plants is important to implement the knowledge of resistance mechanisms under abiotic stresses Agronomic practices like selecting cultivars that is tolerant to wide range of climatic condition planting date irrigation scheduling fertilizer management could be some of the effective short term adaptive tools to fight against abiotic stresses In addition system biology and omics approaches in recent studies offer a long term opportunity at the molecular level in dealing with abiotic stresses The genetic approach for example selection and identification of major conditioning genes by linkage mapping and quantitative trait loci QTL production of mutant genes and transgenic introduction of novel genes has imparted some tolerant characteristics in crop varieties from their wild ancestors Recently research has revealed the interactions between micro RNAs miRNAs and plant stress responses exposed to salinity freezing stress and dehydration Accordingly transgenic approaches to generate stress tolerant plant are one of the most interesting researches to date This book presents the recent development of agronomic and molecular approaches in conferring plant abiotic stress tolerance in an organized way The present volume will be of great interest among research students and teaching community and can also be used as reference material by professional researchers **Unconventional Water Resources** Manzoor

Qadir, Vladimir Smakhtin, Sasha Koo-Oshima, Edeltraud Guenther, 2022-05-26 The world is faced with a growing number of complex and interconnected challenges Water is among the top 5 global risks in terms of impacts which would be far reaching beyond socio economic challenges impacting livelihoods and wellbeing of the people As freshwater resources and population densities are unevenly distributed across the world some regions and countries are already water scarce Water scarcity is expected to intensify in regions like the Middle East and North Africa MENA which has 6% of the global population but only 1% of the world s freshwater resources Climate change adds to this complexity as it is leading to rainfall uncertainty and extended droughts periods mostly in arid areas Increasing water scarcity is now recognized as a major cause of conflict social unrest and migration and at the same time water is increasingly considered as an instrument for



international cooperation to achieve sustainable development Tapping and assessing sustainably every available option in water scarce areas is needed as pressure continues to build on limited water resources The stark fact is that conventional water provisioning approaches relying on snowfall rainfall and river runoff are not enough to meet growing freshwater demand in water scarce areas Water scarce countries need a radical re think of water resource planning and management that includes the creative exploitation of a growing set of viable but unconventional water resources for food production livelihoods ecosystems climate change adaption and sustainable development Unconventional water resources are generated as a by product of specialized processes need suitable pre use treatment require pertinent on farm management when used for irrigation or result from a special technology to collect access water

**New Frontiers in Stress Management for Durable Agriculture** Amitava Rakshit, Harikesh Bahadur Singh, Anand Kumar Singh, Uma Shankar Singh, Leonardo Fraceto, 2020-03-23 Using accessible farming practices to meet the growing demands on agriculture is likely to result in more intense competition for natural resources increased greenhouse gas emissions and further deforestation and land degradation which will in turn produce additional stress in the soil water plant animal continuum Stress refers to any unfavorable force or condition that inhibits customary functioning in plants Concurrent manifestations of different stresses biotic and abiotic are very frequent in the environment of plants which consequently reduces yield Better understanding stress not only changes our perspective on the current environment but can also bring a wealth of benefits like improving sustainable agriculture and human beings living standards Innovative systems are called for that protect and enhance the natural resource base while increasing productivity via holistic approaches such as agroecology agro forestry climate smart agriculture and conservation agriculture which also incorporate indigenous and traditional knowledge The book New Frontiers in Stress Management for Durable Agriculture details the current state of knowledge and highlights scientific advances concerning novel aspects of plant biology research on stress biotic and abiotic stress responses as well as emergent amelioration and reclamation technologies to restore normal functioning in agroecology

**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

*Advances in Agronomy* ,2024-02-07 *Advances in Agronomy* Volume 184 the latest release in this leading reference on agronomy contains a variety of updates and highlights new advances in the field Each chapter is written by an international board of authors with this new release including new chapters on The Role of Artificial Intelligence in Crop Improvement Dealing with the Impact of Climate Change Induced Drought on the Management of Soil Challenges and Emerging Opportunities of Weed Management in Organic Agriculture The Broadbalk Wheat Experiment Rothamsted UK Crop Yields and Soil Changes During the Last 50 Years Includes numerous timely state of the art reviews on the latest advancements in agronomy Features distinguished well recognized authors from around the world Builds upon this venerable and iconic review series Covers the extensive variety and breadth of subject matter in the crop and soil sciences

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