



Climate Change & Crop Production

EDITED BY MATTHEW P. REYNOLDS



Climate Change And Crop Production Cabi Climate Change Series

M. Mohanty, Nishant K. Sinha, K.M. Hati, R.S. Chaudhary, A.K. Patra



Climate Change And Crop Production Cabi Climate Change Series:

Climate Change and Crop Production Matthew P. Reynolds, 2010 Trends in population growth suggest that global food production is unlikely to satisfy future demand under predicted climate change scenarios unless rates of crop improvement are accelerated This book provides an overview of the essential disciplines required for sustainable crop production in unpredictable environments *Climate Change Impact and Adaptation in Agricultural Systems* Jurg Fuhrer, Peter J Gregory, 2014-06-18 The focus of this book is future global climate change and its implications for agricultural systems which are the main sources of agricultural goods and services provided to society These systems are either based on crop or livestock production or on combinations of the two with characteristics that differ between regions and between levels of management intensity In turn they also differ in their sensitivity to projected future changes in climate and improvements to increase climate resilience need to be tailored to the specific needs of each system The book will bring together a series of chapters that provide scientific insights to possible implications of projected climate changes for different important types of crop and livestock systems and a discussion of options for adaptive and mitigative management

Epigenetics for Climate-Smart and Sustainable Agriculture Jen-Tsung Chen, 2025-07-29 This book provides a state of the art overview of current achievements and future possibilities for the application of epigenetic and epigenomic techniques to the improvement of crops Creating crops more resilient to the stresses caused by climate change will be an important part of a climate smart and sustainable agriculture strategy for the future All critical environmental stressors are explored temperature salt drought pollutants pests fungi bacteria and viruses The exciting possibilities for the integration of epigenetic resources and technologies with plant functional genomics and the new field of precision molecular breeding in crops are discussed Examples are shown of crops showing better growth performance enhanced yields more efficient nutrient utilization and higher quality food production This book is an ideal complete guide for students researchers experts and professionals to overview this critical topic **Climate Vulnerability, Volume 2**, 2013-06-14 Climate Vulnerability

Volume 2 Climate Vulnerability, 2013-03-15 Climate change has been the subject of thousands of books and magazines scientific journals and newspaper articles daily It s a subject that can be very political and emotional often blurring the lines between fact and fiction The vast majority of research studies projections and recommendations tend to focus on the human influence on climate change and global warming as the result of CO2 emissions often to the exclusion of other threats that include population growth and the stress placed on energy sources due to emerging global affluence Climate Vulnerability Five Volume Set seeks to strip away the politics and emotion that surround climate change and will assess the broad range of threats using the bottom up approach including CO2 emissions population growth emerging affluence and many others to our five most critical resources water food ecosystems energy and human health Inclusively determining what these threats are while seeking preventive measures and adaptations is at the heart of this unique reference work Takes a Bottom Up

approach addressing climate change and the threat to our key resources at the local level first and globally second providing a more accurate and inclusive approach Includes extensive cross referencing which is key to readers as new connections between factors can be discovered Cuts across a number of disciplines and will appeal to Biological Science Earth Environmental Science Ecology and Social Science comprehensively addressing climate change and other threats to our key resources from multiple perspectives Climate Change Impacts on Agriculture and Food Security in Egypt El-Sayed Ewis Omran, Abdelazim M. Negm, 2020-04-08 This book gathers contributions discussing climate change in Egypt from an agricultural perspective Written by leading experts it presents state of the art insights and the latest research developments in light of the most recent IPCC report Focusing on identifying the specific phenomena that affect climate change in Egypt the book also addresses the effects of climate change in Egypt particularly examining the quality and quantity of water resources as well as the socio economic impacts of climate change on agricultural activities Furthermore it explores alternative solutions to support agriculture and food security and raises awareness of adaptation and protection as the key to adapting to the risks posed by climate change Covering the four fundamental pillars of climate change food security availability access and stability this book is a valuable resource for stakeholders involved in achieving the 2030 sustainable development goals in Egypt and all countries with similar climatic conditions It is also a unique source of information and updates on climate change impacts for graduates researchers policy planners and decision makers **Crop Growth Simulation Modelling And Climate Change** M. Mohanty, Nishant K. Sinha, K.M. Hati, R.S. Chaudhary, A.K. Patra, 2015-06-01 This book on Crop Growth Simulation Modelling and Climate Change A group of authors have dealt with different aspects of crop modelling viz Crop growth simulation models in agricultural crop production Applications of Crop Growth Simulation Models in Climate Change Assessments Biophysical impacts and priorities for adaptation of agricultural crops in a changing climate Climate change projections India's Perspective Impact of Rising Atmospheric CO₂ concentration on Plant and Soil processes Modelling the impact of climate change on soil erosion in stabilization and destabilization of soil organic carbon Simulating Crop Yield Soil Processes Greenhouse Gas Emission and Climate Change Impacts with APSIM InfoCrop Model CropSyst model and its application in natural resource management Climate change and crop production system assessing the consequences for food security A biophysical model to analyze climate change impacts on rainfed rice productivity in the mid hills of Northeast India AquaCrop Modelling A Water Driven Simulation Model Conservation Agriculture A strategy to cope with Climate Change Effect of climate change on productivity of wheat and possible mitigation strategies using DSSAT model in foot hill of Western Himalayas Integrating Remote Sensing Data in Crop Process Models Climate change impact assessment using DSSAT model Decision Support System for Managing Soil Fertility and Productivity in Agriculture De Nitrification De Composition Model An Introduction for SOC Simulations Crop Simulation Modeling for Climate Risk assessment Adaptation and Mitigation Measures and Rules of Simulations Rothamsted Carbon RothC Model and

its Application in Agriculture etc *Rice Almanac, 4th edition* J. Maclean, B. Hardy, G. Hettel, 2013-12-01 This fourth edition of the Rice Almanac continues the tradition of the first three editions by showcasing rice as the most important staple food in the world and all that is involved in maintaining rice production It also breaks new ground in its coverage of issues related to rice production both environmental including climate change and its importance for food security and the global economy It also further expands coverage of the world's rice production area by featuring 80 rice producing countries around the world

Wheat Production in Changing Environments Mirza Hasanuzzaman, Kamrun Nahar, Md. Amzad Hossain, 2019-05-14 This book presents recent advances in global wheat crop research including the effects of abiotic stresses like high and low temperatures drought hypoxia salinity heavy metals nutrient deficiency and toxicity on wheat production It also highlights various approaches to alleviate the damaging effects of abiotic stress on wheat as well as advanced approaches to develop abiotic stress tolerant wheat crops Wheat is probably one of the world's most important cereals it is a staple food in more than 40 countries and because of its adaptability is cultivated in almost every region Global wheat production has more than doubled in the last 50 years due to higher yields However despite their high yield potential modern wheat cultivars are often subject to crop loss due to the abiotic stresses As such plant breeders have long aimed to improve tolerance in order to maintain yield Written by 85 experts and offering the latest insights into wheat responses and tolerance to various abiotic stresses it is a valuable tool for agronomists plant breeders plant physiologists and students in the field of plant science and agriculture It is the first book to comprehensively cover past and current abiotic stress problems and tolerance mechanisms

Sustainable Crop Productivity and Quality under Climate Change Fulai Liu, Xiangnan Li, Petra Hög, Dong Jiang, Marian Brestic, Bing Liu, 2022-06-07 Sustainable Crop Productivity and Quality under Climate Change Responses of Crop Plants to Climate Change explores the physiological biochemical and molecular basis of the responses of major crop plants to a range of climate change scenarios From the development of climate resilient crop varieties which lead to enhanced crop productivity and quality to better utilization of natural resources to ensure food security through modern breeding techniques it presents insights into improving yield while securing the environment Understanding the impact of climate on crop quality and production is a key challenge of crop science Predicted increases in climate variability necessitate crop varieties with intrinsic resilience to cooccurring abiotic stresses such as heat drought and flooding in a future climate of elevated CO₂ This book presents a much needed mechanistic understanding of the interactions between multiple stress responses of plants that is required to identify and take advantage of acclimation traits in major crop species as a prerequisite for securing robust yield and good quality This book is an excellent reference for crop and agricultural scientists plant scientists and researchers working on crop plant ecophysiology stress physiology and future crop production Includes breeding strategies for developing climate resilient crop varieties Presents a comprehensive overview of the current challenges approaches and best practices Authored by frontline researchers and experts who work at the fields of climate

change impacts on crop productivity

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