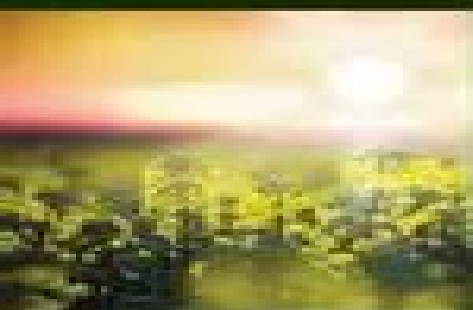
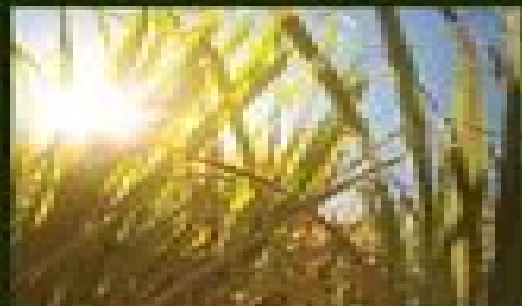
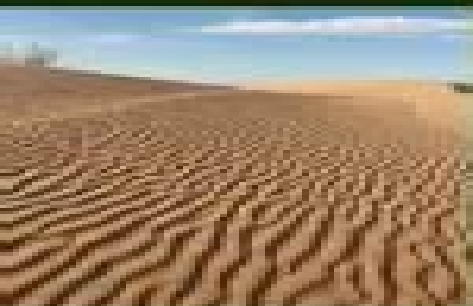




Crop Adaptation to Climate Change



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Robert Redden
Jerry L. Hatfield
Hermann Lotze-Campen
Anthony Hall



Crop Adaptation To Climate Change

DJ Losen



Crop Adaptation To Climate Change:

Crop Adaptation to Climate Change Shyam Singh Yadav, Robert J. Redden, Jerry L. Hatfield, Hermann Lotze-Campen, Anthony E. Hall, 2011-10-25 A major task of our time is to ensure adequate food supplies for the world's current population now nearing 7 billion in a sustainable way while protecting the vital functions and biological diversity of the global environment. The task of providing for a growing population is likely to be even more difficult in view of actual and potential changes in climatic conditions due to global warming and as the population continues to grow. Current projections suggest that the world's temperatures will rise 1.8-4.0 by 2100 and population may reach 8 billion by the year 2025 and some 9 billion by mid century after which it may stabilize. This book addresses these critical issues by presenting the science needed not only to understand climate change effects on crops but also to adapt current agricultural systems particularly in regard to genetics to the changing conditions. Crop Adaptation to Climate Change covers a spectrum of issues related to both crops and climatic conditions. The first two sections provide a foundation on the factors involved in climate stress assessing current climate change by region and covering crop physiological responses to these changes. The third and final section contains chapters focused on specific crops and the current research to improve their genetic adaptation to climate change. Written by an international team of authors, Crop Adaptation to Climate Change is a timely look at the potentially serious consequences of climate change for our global food supply and is an essential resource for academics, researchers and professionals in the fields of crop science, agronomy, plant physiology and molecular biology, crop consultants and breeders as well as climate and food scientists.

Crop Responses to Environment Anthony E. Hall, 2018-02-19 Following in the tradition of its predecessor Crop Responses to Environment, this fully updated and more comprehensive second edition describes aspects of crop responses to environment that are particularly relevant to the development of improved crop cultivars and management methods on a global scale. It includes an extensive discussion of the difficulties in developing agricultural systems that accommodate increasing human needs for agricultural products during the twenty-first century in a sustainable manner. The book features new sections on adaptation to global climate change including adapting to global warming, elevated atmospheric carbon dioxide concentration and increased flooding and salinity through plant breeding and changes in crop management. Warming effects include stressful effects of heat on pollen development and reduced winter chilling effects on fruit and nut trees. The book examines principles, theories, mathematical models and experimental observations concerning plant responses to environment that are relevant to the development of improved crop cultivars and management methods. It illustrates the importance of considering emergent plant properties as well as reductionist approaches to understanding plant function and adaptation. Plant physiological and developmental responses to light and temperature and plant water relations are considered in detail. Dr Hall also describes climatic zone definitions based on temperature, rainfall and evaporative demand in relation to plant adaptation and the prediction of crop water use. Irrigation management and crop

responses to salinity flooding and toxic levels of boron and aluminum are considered Crop responses to pests and diseases as they interact with crop responses to physical and chemical aspects of the environment are examined The book concludes with analyses illustrating the relevance of crop responses to environment to plant breeding

Examples of Crop Adaptation to Climate Change S Ren Thorndal J Rgensen,2012 Food production will have to increase in the next 50 years to meet the demand from a growing population and changed food habits as e g for higher meat consumption The increased production will have to be based on rain fed agriculture or more effective irrigation strategies and will have to be mainly in the tropics since further enhancement in productivity in the western agriculture is a slow process if possible at all Climate change will become a major threat to this demand supply equation since many new problems will hamper the productivity gain that otherwise could have been achieved Simple movement of genetic material or management techniques North South or South North to overcome future climate change are doubtful since photoperiodic control of most tropical species are very strong Establishing more local breeding programs in a wider number of tropical species than currently is highly relevant for continuously adapting to changing climate Apart from crop breeding many new research areas within plant physiology needs further work

Adaptation to Climate Change in Agriculture Toshichika Iizumi,Ryuichi Hirata,Ryo Matsuda,2019-10-18 This book highlights state of the art research and practices for adaptation to climate change in food production systems agriculture in particular as observed in Japan and neighboring Asian countries The main topics covered include the current scientific understanding of observed and projected climate change impacts on crop production and quality modeling of autonomous and planned adaptation and development of early warning and or support systems for climate related decision making Drawing on concrete real world examples the book provides readers with an essential overview of adaptation from research to system development to practices taking agriculture in Asia as the example As such it offers a valuable asset for all researchers and policymakers whose work involves adaptation planning climate negotiations and or agricultural developments

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

Crop Responses to Environment Anthony E. Hall,2018 Following in the tradition of its predecessor Crop Responses to Environment this fully updated and more comprehensive second edition describes aspects of crop responses to environment that are particularly relevant to the development of improved crop cultivars and management methods on a global scale It includes an extensive discussion of the difficulties in developing agricultural systems that accommodate increasing human needs for agricultural products during the twenty first century in a sustainable manner The book features new sections on adaptation to global climate change including adapting to global warming elevated atmospheric carbon dioxide concentration and increased flooding and salinity through plant breeding and

changes in crop management Warming effects include stressful effects of heat on pollen development and reduced winter chilling effects on fruit and nut trees The book examines principles theories mathematical models and experimental observations concerning plant responses to environment that are relevant to the development of improved crop cultivars and management methods It illustrates the importance of considering emergent plant properties as well as reductionist approaches to understanding plant function and adaptation Plant physiological and developmental responses to light and temperature and plant water relations are considered in detail Dr Hall also describes climatic zone definitions based on temperature rainfall and evaporative demand in relation to plant adaptation and the prediction of crop water use Irrigation management and crop responses to salinity flooding and toxic levels of boron and aluminum are considered Crop responses to pests and diseases as they interact with crop responses to physical and chemical aspects of the environment are examined The book concludes with analyses illustrating the relevance of crop responses to environment to plant breeding Provided by publisher Plant Biodiversity and Genetic Resources Andreas W. Ebert, Johannes M. M. Engels, 2021-06-18 The papers included in this Special Issue address a variety of important aspects of plant biodiversity and genetic resources including definitions descriptions and illustrations of different components and their value for food and nutrition security breeding and environmental services Furthermore comprehensive information is provided regarding conservation approaches and techniques for plant genetic resources policy aspects and results of biological genetic morphological economic social and breeding related research activities The complexity and vulnerability of plant biodiversity and its inherent genetic resources as an integral part of the contextual ecosystem and the human web of life are clearly demonstrated in this Special Issue and for several encountered problems and constraints possible approaches or solutions are presented to overcome these

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