

Water Dynamics in Plant Production

2nd Edition

Wilfried Ehlers and Michael Goss



Water Dynamics In Plant Production

Stephen Reynolds



Water Dynamics In Plant Production:

Water Dynamics in Plant Production, 2nd Edition Wilfried Ehlers, Michael Goss, 2016-03-24 Water is the most basic essential for plant growth an inadequate supply causes severe problems as plants rely on the water transmitted by soil to meet their physiological and nutritional needs Since the first edition was published flooding and droughts throughout the world have made water an even more topical subject as the importance and instability of our water supplies have been brought to the forefront of daily life This new edition of Water Dynamics in Plant Production focuses on the dynamics of water through the hydrologic cycle and the associated mechanisms that plants employ to optimize growth and development It describes the basic scientific principles of water transport in the soil plant atmosphere continuum and explains the linkage between transpirational water use and dry matter production Paying particular attention to the various agronomic strategies for adaptation to climate driven limitations of water resources the efficiency of water use in plant production and in achieving an economic yield is presented in detail This book offers a multidisciplinary introduction to the fundamentals and applications of water dynamics in natural and managed ecosystems Including text boxes throughout as well as online supplementary material it provides an essential state of the art resource for students and researchers of soil and plant science hydrology and agronomy

Soil Water and Agronomic Productivity Rattan Lal, B.A. Stewart, 2012-06-19 Crop water use can be increased by management of surface runoff groundwater irrigation and soil water Technological innovations to enhance availability of water for agricultural crops depend on soil and site specific conditions Devoted to the principles and practices of enhancing water use efficiency Soil Water and Agronomic Productivity addresses current problems associated with water supplies required for agricultural purposes and food production Written for professionals and students in agricultural fields the book focuses on innovative technologies for improving soil water availability enhancing water use efficiency and using productive irrigation systems It also presents techniques to conserve water in the root zone as well as remote sensing techniques to assess soil water regime and predict drought on a regional scale Soil water management is crucial to reducing the vulnerability to agronomic drought There are numerous examples of aquifers that have been severely depleted by misuse and mismanagement Soil Water and Agronomic Productivity explains the factors and causes of the mismanagement of soil water and proposes options for sustainable and efficient use of scarce water resources Meeting the global food demand will require careful worldwide management of soil and water resources and this can only be done by sharing information and knowledge Part of the Advances in Soil Science Series

Natural Resource Management Reimagined Robert G. Woodmansee, John C. Moore, Dennis S. Ojima, Laurie Richards, 2021-03-11 Brings scientists policy makers land and water managers and citizen stakeholders together to resolve natural resource and environmental problems

Water Resources Management Vijay P Singh, Shalini Yadav, Ram Narayan Yadava, 2017-11-27 This book contains two parts The first part deals with some aspects of irrigation encompassing farm irrigation systems

landscape gardening energy assessment for drip irrigation and micro sprinklers The second part is on water resources planning and management It discusses water crisis challenges in river health management water supply systems salt water intrusion lake management water supply demand assessment integrated water resources management among other topics The book will be of interest to researchers and practitioners in the field of water resources hydrology environmental resources agricultural engineering watershed management earth sciences as well as those engaged in natural resources planning and management Graduate students and those wishing to conduct further research in water and environment and their development and management may find the book to be of value

System Zoo 2 Simulation Models Hartmut Bossel, 2007 Mathematical modeling and computer simulation make it possible to understand and control the dynamic processes taking place in complex systems Simulation provides insights into the often surprising diversity of possible behaviors and allows identifying possibilities for intervention and options for alternative development About one hundred simulation models from all areas of life are fully documented in the three volumes of the System Zoo They can be quickly implemented and easily operated using freely available system dynamics software Volume 2 of the System Zoo contains simulation models of the regional water cycle and global carbon cycle the photosynthesis of vegetation forest growth the water nutrient and energy dynamics of agriculture the interaction of plants animals and humans with other organisms and resources by predation harvesting and competition for nutrients and through utilization of renewable and exploitation of nonrenewable resources The System Zoo collection of simulation models is particularly well suited for teaching training and research projects at all levels from high school to university and for individual study Volume 1 of the System Zoo contains simulation models of elementary systems and of systems from the fields of physics and engineering Volume 3 deals with systems and processes found in economy and society and with long term global development Hartmut Bossel is Professor Emeritus of environmental systems analysis He taught for many years at the University of California in Santa Barbara and the University of Kassel Germany where he was director of the Center for Environmental Systems Research until his retirement He holds an engineering degree from the Technical University of Darmstadt and a Ph D degree from the University of California at Berkeley With a background in engineering systems science and mathematical modeling he has led many research projects and future studies in different countries developing computer simulation models and decision support systems in the areas of energy supply policy global dynamics orientation of behavior agricultural policy and forest dynamics and management He has written numerous books on modeling and simulation of dynamic systems social change and future paths and has published widely in the scientific literature in several fields

Modeling Processes and Their Interactions in Cropping Systems Lajpat R. Ahuja, Kurt C. Kersebaum, Ole Wendroth, 2022-07-06 Modeling Processes and Their Interactions in Cropping Systems A complete discussion of soil plant climate management processes In Modeling Processes and Their Interactions in Cropping Systems Challenges for the 21st Century a team of distinguished researchers

delivers a comprehensive and up to date scientific textbook devoted to teaching the modeling of soil plant climate management processes at the upper undergraduate and graduate levels The book emphasizes the new opportunities and paradigms available to modern lab and field researchers and aims to improve their understanding and quantification of individual processes and their interactions The book helps readers quantify field research results in terms of the fundamental theory and concepts broadly generalizable beyond specific sites as well as predict experimental results from knowledge of the fundamental factors that determine the environment and plant growth in different climates Readers will also discover An introduction to water and chemical transport in the soil matrix and macropores Explorations of heat transport water balance snowpack and soil freezing Discussions of merging machine learning with APSIM models to improve the evaluation of the impact of climate extremes on wheat yields in Australia Examinations of the quantification and modeling of management effects on soil properties including discussions of tillage reconsolidation crop residues and crop management The book will be essential reading for anyone interested in the 2030 breakthroughs in agriculture identified by the National Academies of Sciences Engineering and Medicine

Crop Physiology Case Histories for Major Crops Victor Sadras, Daniel Calderini, 2020-12-05 Crop Physiology Case Histories of Major Crops updates the physiology of broad acre crops with a focus on the genetic environmental and management drivers of development capture and efficiency in the use of radiation water and nutrients the formation of yield and aspects of quality These physiological process are presented in a double context of challenges and solutions The challenges to increase plant based food fodder fiber and energy against the backdrop of population increase climate change dietary choices and declining public funding for research and development in agriculture are unprecedented and urgent The proximal technological solutions to these challenges are genetic improvement and agronomy Hence the premise of the book is that crop physiology is most valuable when it engages meaningfully with breeding and agronomy With contributions from 92 leading scientists from around the world each chapter deals with a crop maize rice wheat barley sorghum and oat quinoa soybean field pea chickpea peanut common bean lentil lupin and faba bean sunflower and canola potato cassava sugar beet and sugarcane and cotton A crop based approach to crop physiology in a G x E x M context Captures the perspectives of global experts on 22 crops

Response of Crops to Limited Water Lajpat Ahuja, American Society of Agronomy, 2008 Water stress and heat stress are considered to be two primary factors that limit crop production in many parts of the world Global warming appears to be increasing the water requirements of plants Understanding the impact of water deficit on plant physiological processes and efficient water management are of great concern in maintaining food production to meet ever increasing world food demand The book addresses various climatic soil and plant factors that contribute to the water use efficiency in plants subjected to water stress It covers all issues related to soil plant and climatic factors that contribute to the crop responses to water stress The books advances the knowledge in improving and sustaining crop yields in ever increasing unpredictable climatic fluctuations This book uses crop simulation

models for response of crops to limited water under various management and climatic conditions Global Change and Terrestrial Ecosystems Brian Harrison Walker, Will Steffen, 1996-11-13 This major new book presents a collection of essays by leading authorities who address the current state of knowledge The chapters bring together the early results of an international scientific research program designed to address what will happen to our ability to produce food and fiber and what effects there will be on biological diversity under rapid environmental change This book addresses how these changes to terrestrial ecosystems will feed back to further environmental change International in scope this state of the art assessment will interest policymakers students and scientists interested in global change climate change and biodiversity Special features include descriptions of a dynamic global vegetation model developing generic crop models and a special section on the emerging discipline of global ecology **Selected Water Resources Abstracts** ,1990-05 **Agroecology and Strategies for Climate Change** Eric Lichtfouse, 2011-09-30 Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for our children This discipline addresses current issues such as climate change increasing food and fuel prices starvation obesity water pollution soil erosion fertility loss pest control and biodiversity depletion Novel solutions are proposed based on integrated knowledge from agronomy soil science molecular biology chemistry toxicology ecology economy philosophy and social sciences As actual society issues are now intertwined sustainable agriculture will bring solutions to build a safer world This book series analyzes current agricultural issues and proposes alternative solutions consequently helping all scientists decision makers professors farmers and politicians wishing to build safe agriculture energy and food systems for future generations Water Resources and Development Clive Agnew, Philip Woodhouse, 2010-11-03 Since the start of the twenty first century there has been an unprecedented focus upon water as a key factor in the future of both society and environment Water management lies at the heart of strategies of development as does the added hazard of climate change Water Resources and Development provides a stimulating interdisciplinary introduction to the role of water resources in shaping opportunities and constraints for development The book begins by charting the evolution of approaches to water management It identifies an emerging polarization in the late twentieth century between technical and social strategies In the past decade these two axes of policy debate have been further intersected by discussion of the scale at which management decisions should be made the relative effectiveness of global and local governance of water A variety of case studies elaborate this analytical framework exemplifying four key development challenges economic growth poverty reduction competition and conflict over water and adaptation to climate change Current best practice for water management is examined addressing strategies of water supply augmentation the ecological implications of intensified use and strategies of demand management guided by economic or political principles It is argued defining successful water management and best practice requires first the establishment of development goals and the implicit trade offs between water consumption and conservation This engaging and insightful text offers a unique

interdisciplinary analysis by integrating scientific engineering social and political perspectives This is an essential text for courses on development studies geography earth sciences and the environment *Evapotranspiration* Leszek Labedzki, 2011-03-16 Evapotranspiration is a very complex phenomenon comprising different aspects and processes hydrological meteorological physiological soil plant and others Farmers agriculture advisers extension services hydrologists agrometeorologists water management specialists and many others are facing the problem of evapotranspiration This book is dedicated to further understanding of the evapotranspiration problems presenting a broad body of experience by reporting different views of the authors and the results of their studies It covers aspects from understandings and concepts of evapotranspiration through methodology of calculating and measuring to applications in different fields in which evapotranspiration is an important factor The book will be of benefit to scientists engineers and managers involved in problems related to meteorology climatology hydrology geography agronomy and agricultural water management We hope they will find useful material in this collection of papers Improving organic crop cultivation Prof. Ulrich Köpke, 2018-11-30 Reviews key advances and best practice in cultivation techniques across the value chain of organic farming Discusses ways of monitoring and improving the environmental impact of organic crop production Particular focus on ways of supporting organic farming in the developing world **Scheffer/Schachtschabel Soil Science** Hans-Peter Blume, Gerhard W. Brümmer, Heiner Fleige, Rainer Horn, Ellen Kandeler, Ingrid Kögel-Knabner, Ruben Kretschmar, Karl Stahr, B.-Michael Wilke, 2015-11-24 The soils are fundamental to our existence delivering water and nutrients to plants that feed us But they are in many ways in danger and their conservation is therefore a most important focus for science governments and society as a whole A team of world recognised researchers have prepared this first English edition based on the 16th European edition The precursors and the processes of soil development The physical biological and chemical properties of soils Nutrients and Pollutants The various soil classifications with the main focus on the World Reference Base for Soil Resources WRB The most important soils and soil landscapes of the world Soil Evaluation Techniques Basic Principles of Soil Conservation Whoever works with soils needs this book Physiological Plant Ecology IV O. L. Lange, P. S. Nobel, C. B. Osmond, H. Ziegler, 2012-12-06 O L LANGE P S NOBEL C B OSMOND and H ZIEGLER In the last volume of the series *Physiological Plant Ecology* we have asked contributors to address the bases of ecosystem processes in terms of key plant physiological properties It has often been suggested that it is not profitable to attempt analysis of complex living systems in terms of the properties of component individuals or populations i e the whole is more than the sum of its parts Nevertheless assessments of ecological research over the last century show that other approaches are seldom more helpful Although it is possible to describe complex systems of living organisms in holistic terms the most useful descriptions are found in terms of the birth growth and death of individuals This allows analysis of performance of the parts of the whole considering their synergistic and antagonistic interrelationships and is the basis for a synthesis which elucidates the specific

properties of a system Thus it seems that the description of ecosystem processes is inevitably anchored in physiological understanding If enquiry into complex living systems is to remain a scientific exercise it must retain tangible links with physiology Of course as was emphasized in Vol 12A not all of our physiological understanding is required to explore ecosystem processes For pragmatic purposes the whole may be adequately represented as a good deal less than the sum of its parts

Package Price Agroecology Stephen R. Gliessman, 2021-02-25 Stephen Gliessman's complementary volumes Agroecology The Ecology of Sustainable Food Systems Third Edition and Field and Laboratory Investigations in Agroecology Third Edition are now available together for one low price Completely revised updated and reworked the third edition of Agroecology presents new data material case studies and options as well as more emphasis on topics such as the values beliefs and ethics of sustainable food systems The new edition of Field and Laboratory Investigations in Agroecology facilitates hands on experimental learning that involves close observation creative interpretation and constant questioning of findings

Plant-Water Relations for Sustainable Agriculture Thorsten M. Knipfer, Italo F. Cuneo, 2022-09-02 *General Technical Report INT.*, 1994 Grasslands Stephen Reynolds, 2019-05-14 This book looks at significant current grassland problems and issues and provides an insight into grassland productivity in diverse areas of the world with their various production systems There is a focus on recent technical advances and the prospects for further innovation through twenty one chapters by eminent grassland scientists grouped i

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