

Ecophysiology of Tropical Crops



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Ecophysiology Of Tropical Crops:

Ecophysiology of Tropical Crops Paulo de T. Alvim, T. T. Kozlowski, 2013-09-17 Ecophysiology of Tropical Crops covers the knowledge and opinion on ecophysiology of the major tropical crop plants. The book discusses the fundamental ideas about the numerical description of plant development and considers effects of climatic factors e.g. temperature, light and water on physiological processes in plants. The text also presents an overview of the physical and chemical characteristics of tropical soils. The ecophysiology of the major crop plants, particularly those suitable for the wet tropics including rice, sugarcane, pineapple, grasslands, root crops, sweet potato, coffee, cacao, rubber, banana, tea, oil palm, coconut, palm, citrus, cashew and mango, is also considered. Plant ecologists, plant physiologists, biochemists, horticulturists, agronomists, meteorologists, soil scientists, food technologists, plant breeders and people interested in the production of tropical crops will find the book invaluable.

Ecophysiology of Tropical Tree Crops Fabio Dematta, 2010 Plant physiological research has a fundamental role in advancing our understanding of plants and their interactions with surrounding environments. As occurs with most tropical plant species, the gaps in our knowledge of the ecophysiology of tropical tree crops are incommensurable, though significant advances have occurred in recent years. This book highlights these recent advances which could provide valuable information to manage crop plants for maximum productivity. Major tropical tree crops considered here in a broader sense, as including species such as banana, cassava, citrus, cocoa, coconut, coffee, mango, oil palm, papaya, rubber and tea, are examined. For most of these crops, photosynthesis is treated as a central process affecting crop growth and performance. Crop physiological responses to environmental factors such as light and water availability and temperature are highlighted. The flowering control and fruit growth of crops such as citrus, coffee and mango are explored. In addition, several gaps in our database concerning the ecophysiology of tropical tree crops and areas for further research are indicated. Pub desc

Ecophysiology of Tropical Crops, 1975 **Physiological Ecology of Tropical Plants** Ulrich Lüttge, 2013-03-09 This richly illustrated text covers the ecophysiology of plants of all major tropical ecosystems from tropical rain forests, epiphytic habitats, mangroves and savannas to salinas, inselbergs and paramos and their ecophysiological adaptation to these different tropical environments. The physiognomy of biotopes and characteristic life forms of plants are depicted with photographs.

Ecophysiology of Tropical Crops P. de T. ALVIM (Coord), 1975 **Ecophysiology of Tropical Crops**, 1975 V 1 Soil resources of the tropics with special reference to the well drained soils of the Brazilian forest region. Ecophysiology of tropical grasslands. Ecophysiology of rice. Ecophysiology of sugar cane. The ecophysiology of pineapple. The ecophysiology of cassava. Sweet potato productivity in relation to environmental and genetic factors. V 2 Ecophysiology of Arabica coffee. Ecophysiology of cacao. Ecophysiology of tea. Ecophysiology of the coconut palm. *Cocoa nucifera* L. Ecophysiology of the African oil palm *Elaeis guineensis* Jacq. Potential for citrus culture in the Amazon valley. Ecophysiology of cashew *Anacardium occidentale* L. Ecophysiology of mango. **Ecophysiology of Tropical Crops**, 1977 **Ecophysiology of Tropical Crops**

Paulo de T. Alvim,1975 *Preprints of Papers Presented at the International Symposium on Ecophysiology of Tropical Crops*

Paulo de Tarso Alvim,1975 **Ecophysiology of Tropical Crops ; Based to a large extent on material presented at an international symposium held in Manaus, Brazil, May 1975** Alvim P de T Ed,1977 Tropical Forest Plant Ecophysiology Stephen S. Mulkey,Robin L. Chazdon,Alan P. Smith,2012-12-06 Taking readers out of the laboratory and into the humid tropical forests this comprehensive volume explores the most recent advances occurring in tropical plant ecophysiology Drawing on the knowledge of leading practitioners in the field this book synthesizes a broad range of information on the ways in which tropical plants adapt to their environment and demonstrate unique physiological processes This book is arranged into four sections which cover resource acquisition species interactions ecophysiological patterns within and among tropical forest communities and the ecophysiology of forest regeneration These sections describe plant function in relation to ecology across a wide spectrum of tropical forest species and growth forms How do different species harvest and utilize resources from heterogeneous tropical environments How do patterns of functional diversity reflect the overwhelming taxonomic and morphological diversity of tropical forest plants Such fundamental questions are examined in rich detail To illuminate the discussions further every chapter in this book features an agenda for future research extensive cross referencing timely references and the integration of ecophysiology and the demography of tropical species where the data exist Tropical Forest Plant Ecophysiology provides plant scientists botanists researchers and graduate students with important insights into the behavior of tropical plants Biologists and foresters interested in tropical ecology and plant physiological ecologists will also benefit from this authoritative and timely resource Physiological ecology of plants of the wet tropics Ernesto Medina,H.A. Mooney,C. Vazquez-Yanes,2012-12-06 This book contains the results of a Symposium on the physiological ecology of plants of the lowland wet tropics held in Mexico in June 1983 organized by the Instituto de Biología of the National University of Mexico U N A M and sponsored by UNAM CONACYT NSF and UNESCO CIET A workshop portion of the Symposium was held at the tropical research station at Los Tuxtlas Veracruz This Symposium originated in response to the increasing interest in the physiological ecology of tropical plants because of the potential of this field to provide a basic understanding of functioning of tropical plant communities The study of physiological ecology of tropical plants has been delayed in some cases by the lack of conceptual framework but also by the absence of appropriate instrumentation and techniques with which to conduct precise measurements under high temperature high humidity field conditions Hypotheses and concepts of the physiological ecology of tropical plants have been based mainly on observational data and the analysis of growth forms and leaf anatomy The early work of A F W Schimper and O Stocker in Asia and the extensive surveys made by H Walter on the osmotic potentials of plants in the tropics and subtropics constituted until relatively recently the only available information on the water and carbon relations of tropical plants *CRC Handbook of Plant Science in Agriculture* B.R. Christie,2023-01-06 First published in 1987 this two volume set is an exhaustive

compilation of the most recent data on economically important crops Volume I presents information on genetics botany and growth of crop plants while Volume II covers the production of Crops and their utilization *Ecophysiology of Tropical Plants* Sachchidanand Tripathi, Rahul Bhadouria, Pratap Srivastava, Rishikesh Singh, Rajkumari Sanayaima Devi, 2023-10-03 Plants in tropical regions are coping with enormous challenges of physiological stresses owing to changing environmental and climatic conditions Rapid growth of human population and rampant exploitation of fossil fuels and other developmental activities are actively contributing to such perturbations The Intergovernmental Panel on Climate Change has projected a sustained increase in carbon dioxide CO₂ emissions and thereby a rise in global temperature in the coming decades The resultant changes in precipitation patterns are now evident across the globe due to intensification of hydrological cycle Moreover gaseous and particulate pollutants are also an immense challenge for tropical plants Such vagaries in environmental conditions have significant impacts on the ecophysiological traits of plants resulting from altered interactions of tropical plants with each other as well as other biotic and abiotic components within the ecosystem Books available in the market that particularly focus on ecophysiological responses of tropical plants to abiotic and biotic environmental factors under climate change are limited This book intends to fill this knowledge gap and provides a detailed analysis on ecophysiological responses of tropical plants to these environmental challenges as well as suggesting some approachable measures for plant adaptations to these challenges The book is equally applicable to undergraduate and postgraduate students researchers teachers and forest managers and policy makers Salient features of the book are A comprehensive discussion on adaptive mechanisms of plants through their ecophysiological responses to various biotic and abiotic stresses Elaboration on the recent techniques involved in ecophysiological research A detailed account of evolutionary responses of plants to changing climate Discussion of recent research results and some pointers to future advancements in ecophysiological research Presentation of information in a way that is accessible for students researchers and teachers practicing in plant physiology and ecology **The Physiological Ecology of Woody Plants** Theodore T. Kozlowski, Paul J. Kramer, Stephen G. Pallardy, 2012-12-02 The efficient management of trees and other woody plants can be improved given an understanding of the physiological processes that control growth the complex environmental factors that influence those processes and our ability to regulate and maintain environmental conditions that facilitate growth Emphasizes genetic and environmental interactions that influence woody plant growth Outlines responses of individual trees and tree communities to environmental stress Explores cultural practices useful for efficient management of shade forest and fruit trees woody vines and shrubs **Symposium on Potential Productivity of Field Crops Under Different Environments** W. H. Smith, 1983 Biological basis physical environment and crop productivity Growth and yield of field crops Crop productivity under different environments Increasing productivity through cropping systems **Growth and Mineral Nutrition of Field Crops, Third Edition** Nand Kumar Fageria, Virupax C. Baligar, Charles Allan Jones, 1997-06-20 Examines climate soil plant

interrelationships governing the nutritional and growth aspects of cereal legume and pasture crops providing basic and applied information to improve the management and potential yield of major temperate and tropical field crop Second Edition furnishes a new chapter on the management of degraded soils and improved organization of chapter sequence and more than 325 tables and drawings over 90 new to this edition **Growth and Mineral Nutrition of Field Crops** Nand Kumar Fageria, Virupax C. Baligar, Charles Allan Jones, 2010-10-19 By the year 2050 the world's population is expected to reach nine billion To feed and sustain this projected population world food production must increase by at least 50 percent on much of the same land that we farm today To meet this staggering challenge scientists must develop the technology required to achieve an evergreen revolution one **Cassava** R. J. Hillocks, J. M. Thresh, Anthony Bellotti, 2002 Cassava is a major tropical tuber crop found throughout the tropics India Oceania Africa and Latin America Hitherto there has been no single text covering all aspects of cassava biology production and utilization This book fills that gap representing the first comprehensive research level overview of this main staple crop Chapters are written by leading experts in this field from all continents The book is suitable for those working and researching in cassava in both developed and developing countries as well as advanced students **A Functional Biology of Crop Plants** Vincent P. Gutschick, 2012-12-06 This book presents a highly original approach that expands the functional biology viewpoint to include crop plants While the primary focus is on herbaceous annual crops orchard and timber crops are also covered

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