



REPRODUCTIVE ALLOCATION IN PLANTS

Edward G. Reekie & Fakhri A. Bazzaz

PHYSIOLOGICAL ECOLOGY: A SERIES OF MONOGRAPHS, TEXTS AND TREATISES

Reproductive Allocation In Plants Physiological Ecology

Edward Reekie, Fakhri A. Bazzaz



Reproductive Allocation In Plants Physiological Ecology:

Reproductive Allocation in Plants Edward Reekie, Fakhri A. Bazzaz, 2011-05-04 Much effort has been devoted to developing theories to explain the wide variation we observe in reproductive allocation among environments Reproductive Allocation in Plants describes why plants differ in the proportion of their resources that they allocate to reproduction and looks into the various theories This book examines the ecological and evolutionary explanations for variation in plant reproductive allocation from the perspective of the underlying physiological mechanisms controlling reproduction and growth An international team of leading experts have prepared chapters summarizing the current state of the field and offering their views on the factors determining reproductive allocation in plants This will be a valuable resource for senior undergraduate students graduate students and researchers in ecology plant ecophysiology and population biology 8 outstanding chapters dedicated to the evolution and ecology of variation in plant reproductive allocation Written by an international team of leading experts in the field Provides enough background information to make it accessible to senior undergraduate students Includes over 60 figures and 29 tables

Plant Physiological Ecology Hans Lambers, F Stuart Chapin III, Thijs L. Pons, 2008-10-08 Box 9E 1 Continued FIGURE 2 The C S R triangle model Grime 1979 The strategies at the three corners are C competi winning species S stress tolerating species R ruderal species Particular species can engage in any mixture of these three primary strategies and the mixture is described by their position within the triangle comment briefly on some other dimensions that Grime's 1977 triangle Fig 2 see also Sects 6 1 are not yet so well understood and 6 3 of Chapter 7 on growth and allocation is a two dimensional scheme A C S axis Competition winning species to Stress tolerating species Leaf Economics Spectrum species reflects adaptation to favorable vs unfavorable sites for plant growth and an R Five traits that are coordinated across species are axis Ruderal species reflects adaptation to leaf mass per area LMA leaf life span leaf N disturbance concentration and potential photosynthesis and dark respiration on a mass basis In the five trait Trait Dimensions space 79% of all variation worldwide lies along a single main axis Fig 33 of Chapter 2A on photo A recent trend in plant strategy thinking has synthesis Wright et al 2004 Species with low trait dimensions that is spectra of varia LMA tend to have short leaf life spans high leaf tition with respect to measurable traits Compared nutrient concentrations and high potential rates of mass based photosynthesis These species with category schemes such as Raunkiaer's trait occur at the quick return end of the leaf e dimensions have the merit of capturing cont nomics spectrum

Plant Physiological Ecology H. Lambers, Francis Stuart Chapin (III), Thijs Leendert Pons, 1998 The growth reproduction and geographical distribution of plants are profoundly influenced by their physiological ecology the interaction with the surrounding physical chemical and biological environments This textbook is notable in emphasizing that the mechanisms underlying plant physiological ecology can be found at the levels of biochemistry biophysics molecular biology and whole plant physiology At the same time the integrative power of physiological ecology is well suited to assess the costs benefits and consequences of modifying plants for

human needs and to evaluate the role of plants in ecosystems Plant Physiological Ecology begins with the primary processes of carbon metabolism and transport plant water relations and energy balance After considering individual leaves and whole plants these physiological processes are then scaled up to the level of the canopy Subsequent chapters discuss mineral nutrition and the ways in which plants cope with nutrient deficient or toxic soils The book then looks at patterns of growth and allocation life history traits and interactions between plants and other organisms Later chapters deal with traits that affect decomposition of plant material and with plant physiological ecology at the level of ecosystems and global environmental processes Plant Physiological Ecology features numerous boxed entries that provide extended discussions of selected issues a glossary and numerous references to the primary and review literature The significant new text is suitable for use in plant ecology courses as well as classes ranging from plant physiology to plant molecular biology

Physiological Ecology of North American Desert Plants Stanley D. Smith, Russell Monson, Jay E.

Anderson, 2012-12-06 This book begins with the physical and biological characterization of the four North American deserts and a description of the primary adaptations of plants to environmental stress In the following chapters the authors present case studies of key species representing dominant growth forms of the North American deserts and provide an up to date and comprehensive review of the major patterns of adaptations in desert plants One chapter is devoted to several important exotic plants that have invaded North American deserts The book ends with a synthesis of the adaptations and resource requirements of North American desert plants Further it addresses how desert plants may respond to global climate change

Plant Physiological Ecology Robert W. Pearcy, J.R. Ehleringer, Harold Mooney, Philip W. Rundel, 2012-12-06 capable of providing at least a relative measure of stomatal aperture were first used shortly thereafter Darwin and Pertz 1911 The Carnegie Institution of Washington's Desert Research Laboratory in Tucson from 1905 to 1927 was the first effort by plant physiologists and ecologists to conduct team research on the water relations of desert plants Measurements by Stocker in the North African deserts and Indonesia Stocker 1928 1935 and by Lundegardh 1922 in forest understories were pioneering attempts to understand the environmental controls on photosynthesis in the field While these early physiological ecologists were keen observers and often posed hypotheses still relevant today they were strongly limited by the methods and technologies available to them Their measurements provided only rough approximations of the actual plant responses The available laboratory equipment was either unsuited or much more difficult to operate under field than laboratory conditions Laboratory physiologists distrusted the results and ecologists were largely not persuaded of its relevance Consequently it was not until the 1950s and 1960s that physiological ecology began its current resurgence While the reasons for this are complicated the development and application of more sophisticated instruments such as the infrared gas analyzer played a major role In addition the development of micrometeorology led to new methods of characterizing the plant environments

Evolutionary Ecology of Plant Reproductive Strategies Thomas Johannes de Jong, Petrus Gerardus Leonardus

Klinkhamer,2005-10-13 This book places the wealth of data that have been collected on plants into the unifying framework of game theory *Physiological Ecology of North American Plant Communities* Brain F. Chabot,2012-12-06 Although as W D Billings notes in his chapter in this book the development of physiological ecology can be traced back to the very beginnings of the study of ecology it is clear that the modern development of this field in North America is due in the large part to the efforts of Billings alone The foundation that Billings laid in the late 1950s came from his own studies on deserts and subsequently arctic and alpine plants and also from his enormous success in instilling enthusiasm for the field in the numerous students attracted to the plant ecology program at Duke University Billings own studies provided the model for subsequent work in this field Physiological techniques normally confined to the laboratory were brought into the field to examine processes under natural environmental conditions These field studies were accompanied by experiments under controlled conditions where the relative impact of various factors could be assessed and further where genetic as opposed to environmental influences could be separated This blending of field and laboratory approaches promoted the design of experiments which were of direct relevance to understanding the distribution and abundance of plants in nature Physiological mechanisms were studied and assessed in the context of the functioning of plants under natural conditions rather than as an end in itself Sexual dimorphism in ecological and physiological traits in the subdioecious dune plant *Honckenya peploides* (L.) Ehrh. Julia Sánchez Vilas,2007 **Physiological Plant Ecology** Malcolm C. Press,Julie D. Scholes,Martin G. Barker,2002-08 The last decade has seen rapid and major advances in our understanding of the physiological ecology of plants This volume reviews some of these advances and new challenges The chapters cover five broad themes resource acquisition and utilization interactions between organisms responses to global environmental changes ecosystems and integration and scaling This book brings together an unrivalled collection of leading practitioners in the discipline from North America Europe and Australia and adopts a broad approach ranging from the molecular to the ecosystem level It has proven a valuable tool for researchers and advanced students in the discipline *Environmental Physiology of Plants* Alastair H. Fitter,Robert K.M. Hay,2012-12-02 This is the third edition of an established and successful university textbook The original structure and philosophy of the book continue in this new edition providing a genuine synthesis of modern ecological and physiological thinking while entirely updating the detailed content New features include a fresh unified treatment of toxicity emphasizing common features of plant response to ionic gaseous and other toxins explicit treatment of issues relating to global change and a section on the role of fire in plant physiology and communities The illustrations in the text are improved over previous editions including color plates for the first time and the authors continuing commitment to providing wide citation of the relevant literature has further improved the reference list This revision of *Environmental Physiology of Plants* will ensure the reputation of this title as a useful and relevant text well into the 21st century Includes enhanced illustrations now with color plates Examines new molecular approaches which can be

harnessed to solve problems in physiology Features new topics such as the unified treatment of toxicity an explicit treatment of the issues relating to global change and a section on the role of fire

This book delves into Reproductive Allocation In Plants Physiological Ecology. Reproductive Allocation In Plants Physiological Ecology is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Reproductive Allocation In Plants Physiological Ecology, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Reproductive Allocation In Plants Physiological Ecology
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 - Chapter 3: Reproductive Allocation In Plants Physiological Ecology in Everyday Life
 - Chapter 4: Reproductive Allocation In Plants Physiological Ecology in Specific Contexts
 - Chapter 5: Conclusion
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 4. In chapter 3, this book will examine the practical applications of Reproductive Allocation In Plants Physiological Ecology in daily life. The third chapter will showcase real-world examples of how Reproductive Allocation In Plants Physiological Ecology can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Reproductive Allocation In Plants Physiological Ecology in specific contexts. The fourth chapter will explore how Reproductive Allocation In Plants Physiological Ecology is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Reproductive Allocation In Plants Physiological Ecology. The final chapter will summarize the key points that have been discussed throughout the book.
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