



# SEED ECOLOGY V

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# Seed Ecology

**W. Heydecker**



## **Seed Ecology:**

*Seed Ecology* M.W. Fenner, 2012-12-06 This book is about the regeneration of plants from seed under field conditions. It attempts to give a reasonably balanced overview of the many aspects of this broad topic. The first chapter introduces some general ideas about reproduction in plants. Subsequent chapters deal with the early stages in the life of a plant from ovule to established seedling in a more or less chronological order. The final chapter shows how the data on regeneration requirements of different species can be used to explain a number of important characteristics of whole plant communities. The study of the ecological aspects of reproduction by seed touches on a range of issues of current interest in biology. A discussion of seed size and number involves a consideration of the concepts of resource allocation, life cycles and strategies. The interactions between plants and animals seen in pollination, seed dispersal and predation provide excellent material for the study of coevolution. Investigations on regeneration from seed have greatly improved our understanding of the causes and maintenance of species added to diversity. The reader will find that virtually all the experiments and field observations described in this book are conceptually very simple. Many of them merely required numerous careful measurements. **The**

**Ecology of Seeds** Michael Fenner, Ken Thompson, 2005-02-24 What determines the number and size of the seeds produced by a plant? How often should it reproduce them? How often should a plant produce them? Why and how are seeds dispersed and what are the implications for the diversity and composition of vegetation? These are just some of the questions tackled in this wide-ranging review of the role of seeds in the ecology of plants. The authors bring together information on the ecological aspects of seed biology starting with a consideration of reproductive strategies in seed plants and progressing through the life cycle covering seed maturation, dispersal, storage in the soil, dormancy, germination, seedling establishment and regeneration in the field. The text encompasses a wide range of concepts of general relevance to plant ecology, reflecting the central role that the study of seed ecology has played in elucidating many fundamental aspects of plant community function.

*Seeds, 3rd Edition* Robert S. Gallagher, 2013-12-06 The 3rd edition of *Seeds: The Ecology of Regeneration in Plant Communities* highlights the many advances in the field of seed ecology and its relationship to plant community dynamics that have taken place in recent years. The new edition also features chapters on seed development and morphology, seed chemical ecology, implications of climate change on regeneration by seed and the functional role of seed banks in agricultural and natural ecosystems. The book is aimed at advanced level students and researchers in the fields of seed science, seed ecology and plant ecology. **Seed Ecology** W. Heydecker, 1973-01-01

Seed ecology. Genetic regulation of germination. Geographical adaptation of seeds. Differences in the progeny due to daylength and hormone treatment of the mother plant. The production of high quality seeds. Protein synthesis and viability in rye grains. Fine structure of viable and non-viable rye and other embryos. Endogenous hormones in the control of seed dormancy. Interrelated effects of imbibition, temperature and oxygen on seed germination. Seed dormancy and seed environment. Internal oxygen relationships. Oxidative processes and the control of

seed germination Light quality and germination ecological implications Interaction of ethylene and light on dormant weed seeds Problems of seed storage Ageing and the longevity of seeds in field conditions Physiological disorders in germinating seeds induced by the environment Interacting effects of seed vigour and environment on seedling establishment Seed borne diseases and their control Saprophytic fungi and seeds Tetrazolium staining for assessing seed quality The imbibition process The rate of germination Temperature relations of germination in the field Establishment of seedlings in a changeable environment The seed soil system The mechanisation of seed sowing Seed ecology present and future Seed Ecology M. W. Fenner, 2014-09-01 **Seed Ecology** Michael Fenner, 1985 *Kologie Samen und Früchte* *Seed Ecology*, 1973\*

*Foundations of Paleoecology* S. Kathleen Lyons, Anna K. Behrensmeyer, Peter J. Wagner, 2019-12-13 Approximately 99% of all life that has ever existed is extinct Fortunately these long dead species have left traces of their lives and interactions with other species in the rock record that paleoecologists use to understand how species and ecosystems have changed over time This record of past life allows us to study the dynamic nature of the Earth and gives context to current and future ecological challenges This book brings together forty four classic papers published between 1924 and 1999 that trace the origins and development of paleoecology The articles cross taxonomic groups habitat types geographic areas and time and have made substantial contributions to our knowledge of the evolution of life Encompassing the full breadth of paleoecology the book is divided into six parts community and ecosystem dynamics community reconstruction diversity dynamics paleoenvironmental reconstruction species interaction and taphonomy Each paper is also introduced by a contemporary expert who gives context and explains its importance to ongoing paleoecological research A comprehensive introduction to the field *Foundations of Paleoecology* will be an essential reference for new students and established paleoecologists alike **Physiology and Behaviour of Plants** Peter Scott, 2013-04-29 *Physiology and Behaviour of Plants* looks at plants and how they sense and respond to their environment It takes the traditional plant physiology book into a new dimension by demonstrating how the biochemical observations underlie the behaviour of the plant In many ways the book parallels courses studied at university on animal physiology and behaviour The plant has to meet the same challenges as an animal to survive but overcomes these challenges in very different ways Students learn to think of plants not only as dynamic organisms but aggressive territorial organisms capable of long range communication Hallmark features include Based on a successful course that the author has run for several years at Sussex University UK Relates plant biochemistry to plant function Printed in four colour throughout Includes a wealth of illustrations and photographs that engages the reader's attention and reinforce key concepts explored within the text Presents material in a modern topic based approach with many relevant and exciting examples to inspire the student An accompanying web site will include teaching supplements This innovative textbook is the ultimate resource for all students in biology horticulture forestry and agriculture Companion website for this title is available at [www.wiley.com/go/scottplants](http://www.wiley.com/go/scottplants) *Autoecology and Ecophysiology of Woody Shrubs and Trees* Ratikanta Maiti, Humberto Gonzalez

Rodriguez, Natalya Sergeevna Ivanova, 2016-04-08 Forest trees and shrubs play vital ecological roles reducing the carbon load from the atmosphere by using carbon dioxide in photosynthesis and by the storage of carbon in biomass and wood as a source of energy Autoecology deals with all aspects of woody plants the dynamism of populations physiological traits of trees light requirements life history patterns and physiological and morphological characters Ecophysiology is defined by various plant growth parameters such as leaf traits xylem water potential plant height basal diameter and crown architecture which are in turn influenced by physiological traits and environmental conditions in the forest ecosystem In short this book details research advances in various aspects of woody plants to help forest scientists and foresters manage and protect forest trees and plan their future research Autoecology and Ecophysiology of Woody Shrubs and Trees is intended to be a guide for students of woody plant autoecology and ecophysiology as well as for researchers in this field It is also an invaluable resource for foresters to assist in effective management of forest resources

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