

Seeds

BIOLOGY, DEVELOPMENT AND ECOLOGY



EDITED BY S.W. ADKINS, S. ASHMORE AND S.C. NAVIE

Ecology Of Seeds

W. Heydecker



Ecology Of Seeds:

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

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

Seeds Carol C. Baskin, Jerry M. Baskin, 2001 *Seeds Ecology Biogeography and Evolution of Dormancy and Germination* provides a working hypothesis of the ecological and environmental conditions under which various kinds of seed dormancy have developed It also presents the seed germination of more than 3500 species of trees shrubs vines and herbaceous species

Seeds M. (Ed.) FENNER, 2000 Reproductive allocation in plants The evolutionary ecology of seed size Maternal effects on seeds during development The ecology of seed dispersal Animals as seed dispersers Fruits and frugivory Seed predators and plant populations dynamics Dormancy viability and longevity The functional ecology of soil seed banks Seed responses to light The role of temperature in the regulation of seed dormancy and germination Effect of chemical environment on seed germination Role of fire in regeneration from seed Ecology of seedling regeneration The contribution of seedling regeneration to the structure and dynamics of plant communities ecosystems and larger units of landscape Gaps and seedling colonization

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

Seeds Robert S. Gallagher, 2014-05-28 This book 11 chapters presents an overview of seed ecophysiology and its role in shaping plant communities Updated information on frugivory seed dispersal seed predation light mediated germination responses chemical regulation of germination and seed dormancy is provided New chapter contributions include an overview of seed development anatomy and morphology the chemical ecology of seed persistence implications of climate change on the regeneration by seeds and the functional role of seed banks in agricultural and natural ecosystems This book serves as a highly comprehensive review resource for new students of seed ecology and plant community regeneration as well as an update for the more seasoned and experienced scientist

Ecology of Soil Seed Banks Mary Allesio Leck, 2012-12-02 Ecology of Soil Seed Banks examines the factors that influence seed bank dynamics and the variety of patterns found among different species This book presents seed banks in a community context to explore the ecological implications of different patterns and thus begin the development of a synthesis by comparing various communities Organized into five parts this book first examines the general processes that influence inputs or losses from the seed bank including predation dormancy germination mechanisms and their evolutionary importance Then this text examines seed banks in a community context Only eight vegetation types are included but the range in diversity of life form length of growing season and dominant environmental conditions allow comparisons of seed bank patterns This book also explores the role of seed banks in vegetation management This reference material will be a valuable reference material to population and community ecologists and managers Evolutionary consequences of seed banks should be of interest to population and theoretical biologists

The Soil Seed Banks of North West Europe Ken Thompson, Jan P. Bakker, Renie M. Bekker, 1997 Buried viable seed banks are a fundamental aspect of seed plant biology They play a key role in the conservation and restoration of plant communities and the response of plants to changing land use and climate There is almost no area of plant ecology in which seed banks are not implicated Despite several recent reviews of the ecology of seed banks there has previously been no single source of data on seed persistence in individual species This volume which compiles the available data from the nineteenth century up to the end of 1993 provides this source for the 1189 members of the northwest European flora The text describes the criteria for inclusion of data and discusses seed classification systems the relative representation of different habitats methods and taxa and challenges for future research Includes PC disc with database in searchable format

Seeds Steve W. Adkins, Sheldon C. Navie, Sarah Ashmore, 2007-01-01 These proceedings contain 43 papers on the aspects of seed conservation development biotechnology germination dormancy and ecology

Seed Ecology

Michael Fenner, 1985 *Ecology of Seeds* 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, 1973* Seed Development and Germination Jaime Kigel, 2017-11-01 This text is intended for plant physiologists, molecular biologists, biochemists, biotechnologists, geneticists, horticulturalists, agronomists, and botanists and upper level undergraduate and graduate students in these disciplines. It integrates advances in the diverse and rapidly expanding field of seed science from ecological and demographic aspects of seed production, dispersal, and germination to the molecular biology of seed development. The book offers a broad multidisciplinary approach that covers both theoretical and applied knowledge.

Seeds Harshad Khuspe, 2015-03 *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.

The completion of a plant's life cycle and regeneration of plant population depends on the process of reproduction. Yet there is great difference between higher plants species reproduction. Research into plant reproduction from seed continues to provide a wide range of opportunities for investigating fundamental aspects of 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.

Seedling Ecology and Evolution Mary Allessio Leck, V. Thomas Parker, Robert Simpson, 2008-09-18 Seedlings are

highly sensitive to their environment After seeds they typically suffer the highest mortality of any life history stage This book provides a comprehensive exploration of the seedling stage of the plant life cycle It considers the importance of seedlings in plant communities environmental factors with special impact on seedlings the morphological and physiological diversity of seedlings including mycorrhizae the relationship of the seedling with other life stages seedling evolution and seedlings in human altered ecosystems including deserts tropical rainforests and habitat restoration projects The diversity of seedlings is portrayed by including specialised groups like orchids bromeliads and parasitic and carnivorous plants Discussions of physiology morphology evolution and ecology are brought together to focus on how and why seedlings are successful This important text sets the stage for future research and is valuable to graduate students and researchers in plant ecology botany agriculture and conservation *The Teaching Botanist* William Francis Ganong,1899 **The Teaching Botanist; a Manual of Information Upon Botanical Instruction, Together with Outlines and Directions for a Comprehensive Elementary Course** William Francis Ganong,1915 **Plant Regeneration from Seeds** Carol C. Baskin,Jerry M. Baskin,2022-03-17 *Plant Regeneration from Seeds A Global Warming Perspective* comprehensively reviews the effects caused by climate change on global plant regeneration growth and seed germination Initial chapters discuss specific geographical regions such as steppes the arctic boreal and alpine zones dry and tropical forests and deserts Subsequent chapters explore special seed related topics like fire soil seed banks crops weed emergence and invasive species Written by leaders in the field of seed germination and plant growth this is an essential read for researchers and academics interested in plant growth plant regeneration seed germination and the effects of these in relation to climate change Guides readers through the global effects of climate change on plant growth and seed germination including chapters on special seed related topics Provides fundamental research on plant regeneration Includes detailed coverage on specific geographic regions *From Seed Germination to Young Plants* Carlos Alberto Busso,2013 Includes bibliographical references and indexes

Ecology Of Seeds Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ecology Of Seeds**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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