Seed Dispersal by Ants in a Deciduous Forest Ecosystem

Mechanisms, Strategies, Adaptations

Elena Gorb Stanislav Gorb



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Seed Dispersal by Ants in a Deciduous Forest Ecosystem Elena Gorb, Stanislav Gorb, 2003-08-31 Countless ants transport and deposit seeds and thereby influence the survival death and evolution of many plant species In higher plants seed dispersal by ants myrmecochory has appeared many times independently in different lineages More than 3000 plant species are known to utilize ant assistance to be planted Myrmecochory is a very interesting and rather enigmatic form of mutualistic ant plant associations This phenomenon is extremely complex because there are hundreds of ant species connected with hundreds of plant species This book effectively combines a thorough approach to investigating morphological and physiological adaptations of plants with elegant field experiments on the behaviour of ants This monograph is a first attempt at collecting information about morphology ecology and phenology of ants and plants from one ecosystem The book gives readers a panoramic view of the hidden poorly known interrelations not only between pairs of ants and plant species but also between species communities in the ecosystem The authors have considered not just one aspect of animal plant relationships but have tried to show them in all their complexity Some aspects of the ant plant interactions described in the book may be of interest to botanists others to zoologists or ecologists but the entire work is an excellent example of the marriage of these biological disciplines Seed Dispersal by Ants in a Deciduous Forest Ecosystem Elena Gorb, Stanislav S. N. Gorb, 2013-06-29 Countless ants transport and deposit seeds and thereby influence the survival death and evolution of many plant species In higher plants seed dispersal by ants myrmecochory has appeared many times independently in different lineages More than 3000 plant species are known to utilize ant assistance to be planted Myrmecochory is a very interesting and rather enigmatic form of mutualistic ant plant associations This phenomenon is extremely complex because there are hundreds of ant species connected with hundreds of plant species. This book effectively combines a thorough approach to investigating morphological and physiological adaptations of plants with elegant field experiments on the behaviour of ants This monograph is a first attempt at collecting information about morphology ecology and phenology of ants and plants from one ecosystem The book gives readers a panoramic view of the hidden poorly known interrelations not only between pairs of ants and plant species but also between species communities in the ecosystem. The authors have considered not just one aspect of animal plant relationships but have tried to show them in all their complexity Some aspects of the ant plant interactions described in the book may be of interest to botanists others to zoologists or ecologists but the entire work is an excellent example of the marriage of these biological disciplines Ant-Plant Interactions Paulo S. Oliveira, Suzanne Koptur, 2017-08-17 Ants are probably the most dominant insect family on earth and flowering plants have been the dominant plant group on land for more than 100 million years In recent decades human activities have degraded natural environments with unparalleled speed and scale making it increasingly apparent that interspecific interactions vary not only under different ecological conditions and across habitats but also according to anthropogenic global change This is the first volume

entirely devoted to the anthropogenic effects on the interactions between these two major components of terrestrial ecosystems A first rate team of contributors report their research from a variety of temperate and tropical ecosystems worldwide including South Central and North America Africa Japan Polynesia Indonesia and Australia It provides an in depth summary of the current understanding for researchers already acquainted with insect plant interactions yet is written at a level to offer a window into the ecology of ant plant interactions for the mostly uninitiated international scientific community

Insect Ecology Timothy D. Schowalter, 2016-07-29 Insect Ecology An Ecosystem Approach Fourth Edition follows a hierarchical organization that begins with relatively easy to understand chapters on adaptive responses of insect populations to various environmental changes disturbances and anthropogenic activities how insects find food and habitat resources and how insects allocate available energy and nutrients Chapters build on fundamental information to show how insect populations respond to changing environmental conditions including spatial and temporal distribution of food and habitat The next section integrates populations of interacting species within communities and how these interactions determine structure of communities over time and space Other works in insect ecology stop there essentially limiting presentation of insect ecology to evolutionary responses of insects to their environment including the activities of other species The unique aspect of this book is its four chapters on ecosystem structure and function and how herbivores pollinators seed predators and detritivores drive ecosystem dynamics and contribute to ecosystem stability Provides the most advanced synthesis of insect ecology with updated material throughout and new chapters Presents the roles of insects in delivery of ecosystem services and applications to pest management and conservation Features full coverage of ecosystem structure and function balanced with essential background on evolutionary aspects Includes case studies highlighting practical and theoretical applications for topics covered in each chapter The Ecology and Evolution of Ant-Plant Interactions Victor Rico-Gray, Paulo S. Oliveira, 2008-09-15 Ants are probably the most dominant insect group on Earth representing ten to fifteen percent of animal biomass in terrestrial ecosystems Flowering plants meanwhile owe their evolutionary success to an array of interspecific interactions such as pollination seed dispersal and herbivory that have helped to shape their great diversity The Ecology and Evolution of Ant Plant Interactions brings together findings from the scientific literature on the coevolution of ants and plants to provide a better understanding of the unparalleled success of these two remarkable groups of interspecific interactions in general and ultimately of terrestrial biological communities The Ecology and Evolution of Ant Plant Interactions synthesizes the dynamics of ant plant interactions including the sources of variation in their outcomes Victor Rico Gray and Paulo S Oliveira capture both the emerging appreciation of the importance of these interactions within ecosystems and the developing approaches that place studies of these interactions into a broader ecological and evolutionary context The collaboration of two internationally renowned scientists The Ecology and Evolution of Ant Plant Interactions will become a standard reference for understanding the complex interactions between these two taxa Bees, Wasps, and

Ants Eric Grissell,2010-01-01 Explores the biology importance of and methods of encouragement of bees wasps and ants found in a garden Advances in Insect Physiology ,2025-11-01 Advances in Insect Physiology Volume 68 in the series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Sections in this new release include The immune and non immune defenses of aphids Ecology Evolution and Mechanisms of Taste in Social Insects Neuroendocrine regulation of Malpighian tubules Tick gut physiology and Drosophila insect immunity Provides the latest information on Insect Physiology research Offers outstanding and original reviews on a range of Insect Physiology research topics Serves as an indispensable reference for researchers and students alike

Entomology Redefined Abdul Rahaman M Nadaf, Venukumar S,S. Vinoth Kumar, Thakar Pratikkumar Kamleshbhai, Sangavi R,2024-11-15 Although their significance often goes unnoticed in our day to day lives insects are diverse creatures that play an indispensable role in our ecosystems This book presents an in depth discussion about the field of entomology and discusses the anatomy and physiology of insects their unique body structures and how they contribute to their diverse ways of life It also details the mechanisms behind their behaviors from intricate mating rituals to elaborate communication methods and explores the vital roles insects play in pollination nutrient cycling and maintaining the delicate balance of ecosystems The subject matter of this book also includes stories of insect discovery examples of research and insights into the ongoing efforts to conserve insect diversity in the face of environmental challenges Print edition not for sale in South Asia India Sri Lanka Nepal Bangladesh Pakistan or Bhutan

American Book Publishing Record ,2003

Waldökologie Norbert Bartsch, Ernst Röhrig, 2015-12-23 Dieses Lehrbuch gibt einen berblick ber das komplexe in zahlreiche Fachdisziplinen aufgesplitterte Gebiet der kologie Im Fokus steht dabei die kologie der Baumarten und der W lder in Mitteleuropa einem vegetationsgeografisch eigenst ndigen Naturraum der sich von der Ostsee bis zu den S dalpen und von Ostfrankreich bis nach Polen und in die Slowakei erstreckt Die Ausf hrungen zu den Strukturen und Prozessen in den nat rlichen Waldformationen werden erg nzt durch Forschungsergebnisse zu den kologischen Auswirkungen der Forstwirtschaft In eigenen Kapiteln werden auch die globalen Problemfelder Biodiversit t Klimawandel und Waldsch den behandelt Biologie Geografie Landschaftsplanung Landschafts kologie Agrar und Forstwissenschaften sind Studieng nge in denen kologische Themen seit jeher einen wichtigen Teil der Lehrinhalte einnehmen Hinzu kamen neue Studieng nge fr Ressourcenmanagement kosystemmanagement Natur und Umweltwissenschaften Diesen Fachrichtungen bietet das Lehrbuch eine Einf hrung in die kologischen Zusammenh nge Hierbei folgt es einem hierarchischen Aufbau von den B umen ber die Baumpopulation und das Wald kosystem bis zur Landschaft Die umfassende Ber cksichtigung aktueller und spezieller Literatur macht das Lehrbuch auch zu einem Handbuch und Nachschlagewerk fr Masterstudenten Doktoranden und Dozenten Les fourmis Luc Passera, Serge Aron, 2005 **Ecosystem Ecology** Sven Erik Jørgensen, 2009-07-25 Jorgensen s Ecosystem Ecology provides a thorough and comprehensive overview of the world's aquatic and terrestrial ecosystems This

derivative volume based on the best selling Encyclopedia of Ecology published 2008 is the only book currently published that provides an overview of the world's ecosystems in a concise format Provides an overview of the world's ecosystems in a concise format Covers aquatic and terrestrial ecosystems Based on the best selling Encyclopedia of Ecology Full color figures and tables support the text and aid in understanding

The British National Bibliography Arthur James Wells, 2003

Ecology .1978 Publishes essays and articles that report and interpret the results of original scientific research in basic The Ecology of Desert Communities Gary A. Polis, 2023-01-10 Provides interesting and thought provoking reading and is highly recommended to anyone interested in desert ecosystems or community ecology. The book should serve as an inspiration to many for future research Journal of Biogeography This book is not just about deserts it is an update of the contributions that research in desert systems is making to community ecology. This book will provide a useful reference for desert ecologists as well as indicate critical directions where progress needs to be made Ecology This important book fills a significant gap in previous syntheses by presenting a detailed series of reviews of current understanding of community patterns and structure in desert environments Each chapter is thorough and well written and closes with a discussion of suggested future research T hese ideas will do much to focus interest on the importance of desert systems in understanding community Thus this book has interest well beyond desert ecologists alone BioScience Valuable reading and reference for ecology students teachers and researchers Quarterly Review of Biology Bibliography of Agriculture Ecology Abstracts, 1997 Coverage 1982 current updated monthly This database covers current ecology research across a wide range of disciplines reflecting recent advances in light of growing evidence regarding global environmental change and destruction Major ares of subject coverage include Algae lichens Animals Annelids Aquatic ecosystems Arachnids Arid zones Birds Brackish water Bryophytes pteridophytes Coastal ecosystems Conifers Conservation Control Crustaceans Ecosyst em studies Fungi Grasses Grasslands High altitude environments Human ecology Insects Legumes Mammals Management Microorganisms Molluscs Nematodes Paleo ecology Plants Pollution studies Reptiles River basins Soil TAiga tundra Terrestrial ecosystems Vertebrates Wetlands Woodlands Geobotanik Wolfgang Frey, Rainer Lösch, 2014-11-13 Diese Softcover Ausgabe die ein unver nderter Nachdruck der 3 Auflage 2010 ist h lt das nachgefragte Lehrbuch weiterhin verf gbar Die 3 Auflage wurde detailliert berarbeitet und erweitert Die Ber cksichtigung von aktuell publizierter Literatur auch zu spezielleren Themen erh ht den Nutzen des Buches als Handbuch und Nachschlagewerk fr Fortgeschrittene Dargestellt werden Geschichte der Geobotanik und aktuelle Forschungstrends Floristik Arealkunde und Phylogeographie Vegetationskunde Floren und Vegetationsgeschichte Pflanzen kologie kologische Anpassungen und Lebensstrategien der Pflanzen Vegetationsgebiete der Erde mit Schwerpunkt Mitteleuropa botanische Aspekte von Natur und Umweltschutz Das Buch vermittelt bew hrtes Grundlagenwissen ebenso wie die in j ngerer Zeit erarbeiteten Aspekte der Geobotanik Es schlie t die anwendungsbezogenen Bereiche Vegetationskunde und Naturschutz ein und greift ber in die Geowissenschaften und in

die Land und Forstwirtschaft Science Citation Index ,1992 Vols for 1964 have guides and journal lists Correlated Evolution of Ant Seed Dispersal and Flowering Phenology in the Herbaceous Flora of the Temperate Deciduous Forest Biome Lois I. Bangiolo,2011

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