

Ecology of Sonoran Desert Plants and Plant Communities



EDITED BY ROBERT H. ROSICHAUX

Ecology Of Sonoran Desert Plants And Plant Communities

Robert R. Redfield



Ecology Of Sonoran Desert Plants And Plant Communities:

Ecology of Sonoran Desert Plants and Plant Communities Robert H. Robichaux, 2016-10-18 This book offers an accessible introduction to Sonoran Desert ecology Eight original essays by Sonoran Desert specialists provide an overview of the practice of ecology at landscape community and organism levels The essays explore the rich diversity of plant life in the Sonoran Desert and the ecological patterns and processes that underlie it They also reveal the history and scientific legacy of the Desert Laboratory in Tucson which has conducted research on the Sonoran Desert since 1903

Ecology of Sonoran Desert Plants and Plant Communities Robert H. Robichaux, 2023-01-10 The Sonoran Desert is a distinctive biotic region that fascinates scientist students and nature lovers This book offers an accessible introduction to Sonoran Desert ecology Eight original essays by Sonoran Desert specialists such as Paul Martin and Richard Felger provide an overview of the practice of ecology at landscape community and organismal scales The essays explore the rich diversity of plant life in the Sonoran Desert and the ecological patterns and processes that underlie it They also reveal the history and scientific legacy of the Desert Laboratory in Tucson which has conducted research on the Sonoran Desert since 1903 Coverage includes diversity and affinities of the flora physical environments and vegetation landscape complexity and ecological diversity population dynamics of annual plants form and function of cacti and the relationship between plants and the animals that use them as feeding and breeding resources The text also examines the ecological consequences of modern agricultural development as well as the impact on the modern biota of 40 000 years of change in climate vegetation megafauna and ancient cultures This comprehensive book covers a broad range of spatial and temporal scales to highlight the diversity of research being pursued in the Sonoran Desert It is both a testament to these ongoing studies and an authoritative introduction to the diverse plant life in the region Contents 1 Diversity and Affinities of the Flora of the Sonoran Floristic Province Steven P McLaughlin and Janice E Bowers 2 Vegetation and Habitat Diversity at the Southern Edge of the Sonoran Desert Alberto B rquez Angelina Mart nez Yr zar Richard S Felger and David Yetman 3 The Sonoran Desert Landscape Complexity and Ecological Diversity Joseph R McAuliffe 4 Population Ecology of Sonoran Desert Annual Plants D Lawrence Venable and Catherine E Pake 5 Form and Function of Cacti Park S Nobel and Michael E Loik 6 Ecological Genetics of Cactophilic Drosophila William J Etges W R Johnson G A Duncan G Huckins and W B Heed 7 Ecological Consequences of Agricultural Development in a Sonoran Desert Valley Laura L Jackson and Patricia W Comus 8 Deep History and a Wilder West Paul S Martin

Terrestrial Vegetation of California, 3rd Edition Michael Barbour, Todd Keeler-Wolf, Allan A. Schoenherr, 2007-07-17 This thoroughly revised entirely rewritten edition of what is the essential reference on California s diverse and ever changing vegetation now brings readers the most authoritative state of the art view of California s plant ecosystems available Integrating decades of research leading community ecologists and field botanists describe and classify California s vegetation types identify environmental factors that determine the distribution of vegetation types analyze the

role of disturbance regimes in vegetation dynamics chronicle change due to human activities identify conservation issues describe restoration strategies and prioritize directions for new research Several new chapters address statewide issues such as the historic appearance and impact of introduced and invasive plants the soils of California and more

Roadside Use of Native Plants Bonnie Harper-Lore, Maggie Wilson, 2000-09 Originally published by the U S Department of Transportation s Federal Highway Administration FHWA Office of Natural Environment to promote the planting and care of native plants along highway rights of way this unique handbook provides managers of roadsides and adjacent lands with the information and background they need to make site specific decisions about what kinds of native plants to use and addresses basic techniques and misconceptions about using native plants It brings together in a single volume a vast array of detailed information that has until now been scattered and difficult to find The book opens with eighteen short essays on principles of ecological restoration and management from leading experts in the field including Reed F Noss J Baird Callicott Peggy Olwell and Evelyn Howell Following that is the heart of the book more than 500 pages of comprehensive state by state listings that offer a color map for each state with natural vegetations zones clearly marked comprehensive lists of native plants broken down by type of plant grasses forbs trees etc and including both scientific and common names with each list having been verified for completeness and accuracy by the state s natural heritage program contact names addresses and phone numbers for obtaining current information on invasive and noxious species to be avoided resources for more information including contact names and addresses for local experts in each state The appendix adds definitions bibliography and policy citations to clarify any debates about the purpose and the direction of the use of native plants on roadsides Roadside Use of Native Plants is a one of a kind reference whose utility extends far beyond the roadside offering a toolbox for a new aesthetic that can be applied to all kinds of public and private land It can help lead the way to a cost effective ecological approach to managing human designed landscapes and is an essential book for anyone interested in establishing or restoring native vegetation

Roadside Use of Native Plants ,1999

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 **Riparian Areas of the Southwestern United States** Peter F.

Ffolliott, Leonard F. DeBano, 2003-07-28 The demand for water resulting from massive population and economic growth in the southwestern U S overwhelmed traditional uses of riparian areas As a consequence many of these uniquely structured ecosystems have been altered or destroyed Within recent years people have become increasingly aware of the many uses and benefits of riparian zones a **Arid Environments and Sustainability** Hasan Arman, Ibrahim Yuksel, 2018-05-23 Arid

environments are basically associated with water scarcity Therefore soils will have an extremely low moisture level to support plant and animal life as well as human social life Sustainability is the long durability of systems and processes within various adapted environmental conditions Recently systematic scientific studies on arid environments and sustainability have become more attractive critical and sound than the previous years Sharing such experiences related to different environmental circumstances will absolutely help scientists and decision makers to have better interpretation of their own environment By learning lessons appropriate fast and effective approaches require to implement for overwhelming such problems Such actions will certainly lead to more secure and sustainable environments for plant animal and human life

Conserving Biodiversity in Arid Regions J. Lemons, Reginald Victor, Daniel Schaffer, 2003-07-31 On the eve of the World Summit for Sustainable Development WSSD held in autumn 2002 in Johannesburg South Africa United Nations Secretary General Kofi Annan recommended five specific areas as focal points of discussion for the global forum Water energy health agriculture and biodiversity In his address Towards a Sustainable Future delivered just four months before the WSSD Secretary General Annan contended that concrete progress in each of these areas often referred to by their acronym WEHAB would be key to improving the quality of life not only in the developing world but across the globe For most people I think it is fair to say that the inclusion of biodiversity in a list that focuses on basic human needs may not be self evident Water energy health and agriculture yes But why biodiversity The truth is that biodiversity is just as critical to global well being as water energy agriculture and health This is because biodiversity both drives and shapes nature s intricate and dynamic structure in an enduring form and force that enables both current and future generations to enjoy its bounty **A Natural**

History of California Allan A. Schoenherr, 2017-07-03 In this comprehensive and abundantly illustrated book Allan A. Schoenherr describes the natural history of California a state with a greater range of landforms a greater variety of habitats and more kinds of plants and animals than any area of equivalent size in all of North America A Natural History of California focuses on each distinctive region addressing its climate rocks soil plants and animals The second edition of this classic work features updated species names and taxa new details about parks reclassified by federal and state agencies new stories about modern human and animal interaction and a new epilogue on the impacts of climate change **Western North American**

Juniperus Communities Oscar van Auken, 2007-12-04 In North America Juniperus woodlands occupy approximately 55 million hectares an area larger than the state of Texas Various species of Juniperus have been increasing in density and are expanding into associated grasslands reducing the size of the grasslands The reason for the Juniperus expansion is highly debated but has important implications for global change and fire regime studies Western North American Juniperus Communities addresses various aspects of the biology ecology and management of Juniperus woodlands and savannas by synthesizing past current and proposed future research The book will provide professionals with a solid background in Juniperus ecosystems enabling them to manage the communities for maximum sustained productivity and diversity Although the book focuses on Juniperus communities in North America a discussion of other regions and larger research implications is included as well *Revised and Updated Edition* Steven J. Phillips, Patricia Wentworth Comus, 2000 A Natural History of the Sonoran Desert provides the most complete collection of Sonoran Desert natural history information ever compiled and is a perfect introduction to this biologically rich desert of North America **BOOK JACKET** **Effects of Climate Change on Agriculture, Land Resources, Water Resources, and Biodiversity in the United States** Peter Backlund, 2009-05 This report by the Nat Science and Tech Council s U S Climate Change Science Program CCSP is part of a series of 21 reports aimed at providing current assessments of climate change science to inform public debate policy and operational decisions These reports are also intended to help the CCSP develop future program research priorities The CCSP s guiding vision is to provide the Nation and the global community with the science based knowledge needed to manage the risks and capture the opportunities associated with climate and related environmental changes This report assesses the effects of climate change on U S land resources water resources agriculture and biodiversity It was developed with broad scientific input Illus The Effects of Climate Change on Agriculture, Land Resources, Water Resources, and Biodiversity in the United States Climate Change Science Program (U.S.), 2008 **Responses of Plant Communities to Grazing in the Southwestern United States :** Daniel G. Milchunas, 2006 *Positive Interactions and Interdependence in Plant Communities* Ragan M. Callaway, 2007-08-28 Positive interactions and interdependence in plant communities offers a new look at an old problem the nature of the communities This book marshals ecological literature from the last century on facilitation to make the case against the widely accepted individualistic notion of community organization Clearly many species in many communities would not be present without the ameliorating effects of other species In other words communities are not produced only by summing the population ecology of species Concepts covered include the idea that positive interactions are more prevalent in physically stressful conditions species specificity in facilitative interactions indirect facilitative interactions how facilitation contributes to diversity ecosystem function relationships and potential evolutionary aspects of positive interactions *Packrat Middens* Julio L. Betancourt, Thomas R. Van Devender, Paul S. Martin, 2021-11-16 Over the past thirty years late Quaternary environments in the arid interior of western North America have been revealed by a unique source of fossils well

preserved fragments of plants and animals accumulated locally by packrats and quite often encased amberlike in large masses of crystallized urine These packrat middens are ubiquitous in caves and rock crevices throughout the arid West where they can lie preserved for tens of thousands of years More than a thousand of these deposits have been dated and analyzed and middens have supplanted pollen records as a touchstone for studying vegetation dynamics and climatic change in radiocarbon time the last 40 000 years Now similar deposits made by other mammals like hyraxes are being reported from other parts of the world This book brings together the findings and views of many of the researchers investigating fossil middens in the United States Mexico Africa the Middle East and Australia The contributions serve to open a forum for methodological concerns update the fossil record of various geographic regions introduce new applications and display the vast potential for fossil midden analysis in arid regions worldwide The findings presented here will serve to foster regional research and to promote general studies devoted to global climate change Included in the text are more than two hundred charts photographs and maps

General Technical Report NE ,1980 **Evaluating Reclamation Success** American Society for Surface Mining and Reclamation. National Meeting,1992 **Functional Plant Ecology** Francisco Pugnaire,Fernando Valladares,2007-06-20

Following in the footsteps of the successful first edition Functional Plant Ecology Second Edition remains the most authoritative resource in this multidisciplinary field Extensively revised and updated this book investigates plant structure and behavior across the ecological spectrum It features the ecology and evolution of plant crowns and a

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