

LTER



# Grassland Dynamics

LONG-TERM ECOLOGICAL RESEARCH  
IN TALLGRASS PRAIRIE

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# Grassland Dynamics Long Term Ecological Research In Tallgrass Prairie

**Michael R. Willig, Lawrence R. Walker**



## **Grassland Dynamics Long Term Ecological Research In Tallgrass Prairie:**

*Grassland Dynamics* Alan K. Knapp, John M. Briggs, David C. Hartnett, 1998 This is the first volume in the Long Term Ecological Research LTER Network Series Established in 1980 the LTER program is exploring a wide variety of biomes characteristic of the United States and developing a baseline for ecosystem dynamics over long time periods and broad spatial scales The volumes in this series will include both comprehensive reviews of research from particular sites and topical overviews which use data from many sites to examine important questions in ecology This volume which focuses on the Konza Prairie in northeastern Kansas is a synthesis of over 15 years of research in pristine tallgrass prairie It gives a comprehensive site description and summarizes the key long term studies that form the basis for the Konza Prairie Long Term Ecological Research Program It then presents a synthesis of the many research areas involved and develops a foundation for future ecological studies in tallgrass prairie With over 150 figures and tables chapters that encompass microbial through landscape scales and an emphasis on lessons learned from long term studies this volume provides a unique and comprehensive perspective on the structural and functional ecology of the grassland ecosystem that once covered most of central North America

**Long-Term Ecological Research** Michael R. Willig, Lawrence R. Walker, 2016-07-01 The Long Term Ecological Research LTER Program is in a sense an experiment to transform the nature of science and represents one of the most effective mechanisms for catalyzing comprehensive site based research that is collaborative multidisciplinary and long term in nature The scientific contributions of the Program are prodigious but the broader impacts of participation have not been examined in a formal way This book captures the consequences of participation in the Program on the perspectives attitudes and practices of environmental scientists The edited volume comprises three sections The first section includes two chapters that provide an overview of the history goals mission and inner workings of the LTER network of sites The second section comprises three dozen retrospective essays by scientists data managers or educators who represent a broad spectrum of LTER sites from deserts to tropical forests and from arctic to marine ecosystems Each essay addresses the same series of probing questions to uncover the extent to which participation has affected the ways that scientists conduct research educate students or provide outreach to the public The final section encompasses 5 chapters whose authors are biophysical scientists historians behavioral scientists or social scientists This section analyzes integrates or synthesizes the content of the previous chapters from multiple perspectives and uncovers emergent themes and future directions

**Grasses and Grassland Ecology** David J. Gibson, 2009 This book is the most up to date and thorough account of the natural history of the plants that comprise the most important food crop on Earth the grasses and grasslands

**Climate Variability and Ecosystem Response at Long-Term Ecological Research Sites** David Greenland, Douglas G.

Goodin, Raymond C. Smith, 2003-10-09 This volume in the Long Term Ecological Research Network Series would present the work that has been done and the understanding and database that have been developed by work on climate change done at

all the LTER sites Global climate change is a central issue facing the world which is being worked on by a very large number of scientists across a wide range of fields The LTER sites hold some of the best available data measuring long term impacts and changes in the environment and the research done at these sites has not previously been made widely available to the broader climate change research community This book should appeal reasonably widely outside the ecological community and because it pulls together information from all 20 research sites it should capture the interest of virtually the entire LTER research community

*The Challenges of Long Term Ecological Research: A Historical Analysis* Robert B. Waide, Sharon E. Kingsland, 2021-04-07 This volume explores the challenges of sustaining long term ecological research through a historical analysis of the Long Term Ecological Research Program created by the U S National Science Foundation in 1980 The book examines reasons for the creation of the Program an overview of its 40 year history and in depth historical analysis of selected sites Themes explored include the broader impact of this program on society including its relevance to environmental policy and understanding global climate change the challenge of extending ecosystem ecology into urban environments and links to creative arts and humanities projects A major theme is the evolution of a new type of network science involving comparative studies innovation in information management creation of socio ecological frameworks development of governance structures and formation of an International Long Term Ecological Research Network with worldwide reach The book s themes will interest historians philosophers and social scientists interested in ecological and environmental sciences as well as researchers across many disciplines who are involved in long term ecological research

**Ecology of the Shortgrass Steppe** W. K. Lauenroth, I. C. Burke, 2008-08-28 The semiarid shortgrass steppe is the warmest driest and lowest in primary production of grasslands in central North America This book is an enormously rich source of data and insight into the structure and function of semiarid grassland

**Long-Term Response of a Forest Watershed Ecosystem** Wayne T. Swank, Jackson R. Webster, 2014-04 A long term study of the effects of clearcutting on forest and stream ecosystems

**Integrating Landscape Ecology Into Natural Resource Management** Jianguo Liu, William W. Taylor, 2002-08 The rapidly increasing global population has dramatically increased the demands for natural resources and has caused significant changes in quantity and quality of natural resources To achieve sustainable resource management it is essential to obtain insightful guidance from emerging disciplines such as landscape ecology This text addresses the links between landscape ecology and natural resource management These links are discussed in the context of various landscape types a diverse set of resources and a wide range of management issues A large number of landscape ecology concepts principles and methods are introduced Critical reviews of past management practices and a number of case studies are presented This text provides many guidelines for managing natural resources from a landscape perspective and offers useful suggestions for landscape ecologists to carry out research relevant to natural resource management In addition it will be an ideal supplemental text for graduate and advanced undergraduate ecology courses

**C4 Plant Biology**

,1998-12-21 Due to many issues related to long term carbon dynamics an improved understanding of the biology of C4 photosynthesis is required by more than the traditional audience of crop scientists plant physiologists and plant ecologists This work synthesizes the latest developments in C4 biochemistry physiology systematics and ecology The book concludes with chapters discussing the role of C4 plants in the future development of the biosphere particularly their interactive effects on soil hydrological and atmospheric processes *Terrestrial Ecosystems and Biodiversity* Yeqiao Wang,2020-05-19 Authored by world class scientists and scholars The Handbook of Natural Resources Second Edition is an excellent reference for understanding the consequences of changing natural resources to the degradation of ecological integrity and the sustainability of life Based on the content of the bestselling and CHOICE awarded Encyclopedia of Natural Resources this new edition demonstrates the major challenges that the society is facing for the sustainability of all well being on the planet Earth The experience evidence methods and models used in studying natural resources are presented in six stand alone volumes arranged along the main systems of land water and air It reviews state of the art knowledge highlights advances made in different areas and provides guidance for the appropriate use of remote sensing and geospatial data with field based measurements in the study of natural resources Volume 1 Terrestrial Ecosystems and Biodiversity provides fundamental information on terrestrial ecosystems approaches to monitoring and impacts of climate change on natural vegetation and forests New to this edition are discussions on biodiversity conservation gross and net primary production soil microbiology land surface phenology and decision support systems This volume demonstrates the key processes methods and models used through many case studies from around the world Written in an easy to reference manner The Handbook of Natural Resources Second Edition as individual volumes or as a complete set is an essential reading for anyone looking for a deeper understanding of the science and management of natural resources Public and private libraries educational and research institutions scientists scholars and resource managers will benefit enormously from this set Individual volumes and chapters can also be used in a wide variety of both graduate and undergraduate courses in environmental science and natural science at different levels and disciplines such as biology geography earth system science and ecology **Principles and Standards for Measuring Primary Production** Timothy J. Fahey,Alan K. Knapp,2007-05-14 Principles and Standards for Measuring Net Primary Production in Long Term Ecological Studies is the first book to establish a standardized method for measuring net primary productivity NPP in ecological research Primary productivity is the rate at which energy is stored in the organic matter of plants per unit area of the earth s surface As the beginning stage of the carbon cycle our ability to accurately measure NPP is essential to any ecological analysis as well as agronomy forestry fisheries limnology and oceanography In fact NPP measurements are fundamental to ecosystem studies at thousands of sites around the world All 26 LTER sites will be expected to collect and report data using these new standards but the standards should reach well beyond LTER sites Identified standards for NPP measurements will allow researchers from diverse biomes to authoritatively compare

measurements among their sites Comparable measurements will build a foundation for a broad scale understanding of the environmental biological and nutrition controls on NPP The book includes chapters for each of the critical biome types including special techniques that work best in each environment For example there are chapters that discuss grassland ecosystems urban ecosystems marine pelagic ecosystems forest ecosystems and salt marsh ecosystems among others

**Global Vegetation** Jörg S. Pfadenhauer, Frank A. Klötzli, 2020-09-09 This up to date textbook of global vegetation ecology which comprises the current state of knowledge is long overdue and much needed It is a translation of the textbook *Vegetation der Erde* Springer Spektrum Heidelberg A short introductory chapter deals with the fundamentals of vegetation ecology that are of importance for the delimitation and characterization of the global vegetation presented in this book chorology evolution of plants physiognomic and structural characteristics phytodiversity and the human impact on it as well as general terminology concerning both plant growth forms and on vegetation structure types In the following chapters the zonal and azonal vegetation from the tropics to the polar regions including high mountains is described and discussed The main focus is on the characterization of interactions between the spatial location of plants and plant communities on the one hand and site conditions historic and genetic processes spatial and temporal patterns ecophysiology and anthropogenic influences on the other hand Additional information on specific topics is provided in 51 boxes

**Agrarian Landscapes in Transition** Charles Redman, David R. Foster, 2008-07-18 Agrarian transformations represent the most pervasive alteration of the Earth's terrestrial environment over the past 10 000 years Using North American examples the book traces compares and contrasts the introduction spread and abandonment of agriculture at six U S long term ecological research LTER sites Indeed lessons from these examples apply more broadly to inform socio ecological studies land use options conservation strategies restoration initiatives and urban planning

**The Potential of U.S. Grazing Lands to Sequester Carbon and Mitigate the Greenhouse Effect** Ronald F. Follett, John M. Kimble, 2000-09-15 Grazing lands represent the largest and most diverse land resource taking up over half the earth's land surface The large area grazing land occupies its diversity of climates and soils and the potential to improve its use and productivity all contribute to its importance for sequestering C and mitigating the greenhouse effect and other condition

**America's Natural Places: The Midwest** Jason Ney, Terri Nichols, 2009-11-25 From Iowa's Decorah Ice Cave to the Kitty Todd Nature Preserve in Ohio this volume provides a snapshot of the most spectacular and important natural places in the Midwestern United States America's Natural Places The Midwest examines over 50 of the most spectacular and important areas of this region with each entry describing the importance of the area the flora and fauna that it supports threats to the survival of the region and what is being done to protect it Organized by state within the volume this work informs readers about the wide variety of natural areas across the Midwest and identifies places near them that demonstrate the importance of preserving such regions

**Ecology of North America** Brian R. Chapman, Eric G. Bolen, 2015-04-09 North America contains an incredibly diverse array of natural environments each

supporting unique systems of plant and animal life. These systems, the largest of which are biomes, form intricate webs of life that have taken millennia to evolve. This richly illustrated book introduces readers to this extraordinary array of natural communities and their subtle biological and geological interactions. Completely revised and updated throughout, the second edition of this successful text takes a qualitative, intuitive approach to the subject, beginning with an overview of essential ecological terms and concepts such as competitive exclusion, taxa, niches, and succession. It then goes on to describe the major biomes and communities that characterize the rich biota of the continent, starting with the Tundra and continuing with Boreal Forest, Deciduous Forest, Grasslands, Deserts, Montane Forests, and Temperate Rain Forest, among others. Coastal environments, including the Laguna Madre seagrasses, Chesapeake Bay, and barrier islands, appear in a new chapter. Additionally, the book covers many unique features such as pitcher plant bogs, muskeg, the polar ice cap, the cloud forests of Mexico, and the La Brea tar pits. InfoBoxes have been added; these include biographies of historical figures who provided significant contributions to the development of ecology, unique circumstances such as frogs and insects that survive freezing, and conservation issues such as those concerning puffins and island foxes. Throughout the text, ecological concepts are worked into the text; these include biogeography, competitive exclusion, succession, soil formation, and the mechanics of natural selection. *Ecology of North America 2e* is an ideal first text for students interested in natural resources, environmental science, and biology, and it is a useful and attractive addition to the library of anyone interested in understanding and protecting the natural environment.

Changing Precipitation Regimes and Terrestrial Ecosystems Jake F. Weltzin, Guy Randall McPherson, 2003-01-01. By the beginning of the twenty-first century, few people could deny the reality of global change. But while most alarm has been over increasing temperatures, other changes are occurring in precipitation patterns, variations that may be due in part to global warming but also to factors such as changes in atmospheric circulation and land surfaces. This volume provides a central source of information about this newly emerging area of global change research. It presents ongoing investigations into the responses of plant communities and ecosystems to the experimental manipulation of precipitation in a variety of field settings, particularly in the western and central United States where precipitation is already scarce or variable. By exploring methods that can be used to predict responses of ecosystems to changes in precipitation regimes, it demonstrates new approaches to global change research and highlights the importance of precipitation regimes in structuring ecosystems. The contributors first document the importance of precipitation, soil characteristics, and soil moisture to plant life. They then focus on the roles of precipitation amount, seasonality, and frequency in shaping varied terrestrial ecosystems: desert sagebrush steppe, oak savanna, tall and mixed grass prairie, and eastern deciduous forest. These case studies illustrate many complex, tightly woven interactive relationships among precipitation, soils, and plants, relationships that will dictate the responses of ecosystems to changes in precipitation regimes. The approaches utilized in these chapters include spatial comparisons of vegetation structure and function across different ecosystems, analyses of changes in plant

architecture and physiology in response to temporal variation in precipitation experiments to manipulate water availability and modeling approaches that characterize the relationships between climate variables and vegetation types All seek to assess vegetation responses to major shifts in climate that appear to be occurring at present and may become the norm in the future As the first volume to discuss and document current and cutting edge concepts and approaches to research into changing precipitation regimes and terrestrial ecosystems this book shows the importance of developing reliable predictions of the precipitation changes that may occur with global warming These studies clearly demonstrate that patterns of environmental variation and the nature of vegetation responses are complex phenomena that are only beginning to be understood and that these experimental approaches are critical for our understanding of future change      **Agricultural Research in Kansas** Kansas Agricultural Experiment Station,1998      **Structure and Function of a Chihuahuan Desert Ecosystem** Kris M. Havstad,Laura F. Huenneke,William H. Schlesinger,2006-07-20 The Jornada Basin LTER is located in the Chihuahuan Desert the largest in North America This region of south central New Mexico has a history of nearly 100 years as the basis for scientific research This work gives a thorough encompassing review of the tremendous array of observations resulting from experiments conducted in this ecosystem Beginning with thorough descriptions of the most salient features of the region the book then reviews a wide range of archived and active data sets on a diversity of biotic and abiotic features It next presents a syntheses of important topics including livestock grazing and remediation efforts A concluding chapter provides a synthesis of the principles that have emerged from this body of work and how these relate to the broader fields of ecology and natural resource management It concludes with recommendations for future research directions The insightful views expressed in this volume should guide management of arid landscapes globally This is the sixth volume in the Long Term Ecological Network Series      Diversity and Integration in Mycorrhizas Sally E. Smith,F. Andrew Smith,2002-09-30 Proceedings of the 3rd International Conference on Mycorrhizas ICOM3 8 13th July 2001 Adelaide Australia



## **Grassland Dynamics Long Term Ecological Research In Tallgrass Prairie** 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 power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Grassland Dynamics Long Term Ecological Research In Tallgrass Prairie**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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