

Fire Ecology



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Fire Ecology

**Devan Allen McGranahan, Carissa L.
Wonka**



Fire Ecology:

Fire Ecology of Pacific Northwest Forests James K Agee, 1993-11 A leading expert in the emerging field of fire ecology James Agee analyzes the ecological role of fire in the creation and maintenance of the natural forests common to most of the western U S In addition to examining fire from an ecological perspective he provides insight into its historical and cultural aspects and also touches on some of the political issues that influence the use of fire Although the focus of chapters on the ecology of specific forest zones is on the Pacific Northwest much of the book addresses issues that are applicable to other regions Illustrations tables index *The Landscape Ecology of Fire* Donald McKenzie, Carol Miller, Donald A.

Falk, 2011-01-04 Global warming is expected to change fire regimes likely increasing the severity and extent of wildfires in many ecosystems around the world What will be the landscape scale effects of these altered fire regimes Within what theoretical contexts can we accurately assess these effects We explore the possible effects of altered fire regimes on landscape patch dynamics dominant species tree shrub or herbaceous and succession sensitive and invasive plant and animal species and communities and ecosystem function Ultimately we must consider the human dimension what are the policy and management implications of increased fire disturbance and what are the implications for human communities **The**

Ecology of Fire Robert J. Whelan, 1995-08-10 Wildfires kill many animals but are populations of animals affected How do animals survive the passage of fire Why do some tree species survive and others die in a fire Do frequent fires cause changes in plant community composition Answering questions such as these requires an understanding of the ecological effects of fire Aimed at senior undergraduate students researchers foresters and other land managers Dr Whelan s book examines the changes wrought by fires with reference to general ecological theory The impacts of fires on individual organisms populations and communities are examined separately and emphasis is placed on the importance of fire regime Each chapter includes a listing of outstanding questions that identify gaps in current knowledge The book finishes by summarising the major aspects of ecology that are of particular relevance to management of fires both protection against wildfires and deliberate use of fire *Fire Ecology of Florida and the Southeastern Coastal Plain* Reed F. Noss, 2018-05-15 An overview of

the importance of fire to ecosystems in the Southeast with guidance on how to best conduct controlled burns in the region A biodiversity hotspot Florida is home to many ecosystems and species that evolved in the presence of frequent fire In this book Reed Noss discusses the essential role of fire in generating biodiversity and offers best practices for using fire to keep the region s ecosystems healthy and resilient Reviewing several lines of evidence Noss shows that fire has been important to the southeastern Coastal Plain for tens of millions of years He explains how the region s natural fire regimes are connected to its climate high rate of lightning strikes physical chemistry and vegetation But urbanization and active fire suppression have reduced the frequency and extent of fires Noss suggests the practice of controlled burning can and should be improved to protect fire dependent species and natural communities from decline and extinction Noss argues that fire managers should

attempt to simulate natural fire regimes when conducting controlled burns Based on what the species of the Southeast likely experienced during their evolutionary histories he makes recommendations about pyrodiversity how often and in what seasons to burn the optimal heterogeneity of burns mechanical treatments such as cutting and roller chopping and the proper use of fuel breaks In doing so Noss is the first to apply the new discipline of evolutionary fire ecology to a specific region This book is a fascinating history of fire ecology in Florida an enlightening look at why fire matters to the region and a necessary resource for conservationists and fire managers in the state and elsewhere

Ecology of Fire-Dependent Ecosystems Devan Allen McGranahan, Carissa L. Wonkka, 2020-12-29 Ecology of Fire Dependent Ecosystems is brimming with intriguing ecological stories of how life has evolved with and diversified within the varied fire regimes that are experienced on earth Moreover the book places itself as a communication between students fire scientists and fire fighters and each of these groups will find some familiar ground and some challenging aspects in this text something which ultimately will help to bring us closer together and enrich our different approaches to understanding and managing our changing planet Sally Archibald Professor University of the Witwatersrand Johannesburg South Africa Most textbooks are as dry as kindling and about as much fun to sink your teeth into This is not that kind of textbook Devan Allen McGranahan and Carissa L Wonkka have taken a complex topic and somehow managed to synthesize it into a comprehensive yet digestible form This is a book you can read cover to cover I know I did it As a result I took an enlightening journey through the history and fundamentals of fire and its role in the natural and human world ending with a thoughtful review of the evolving relationship between humans and wildland fire Chris Helzer Nebraska Director of Science The Nature Conservancy and author of The Prairie Ecologist blog Ecology of Fire Dependent Ecosystems Wildland Fire Science Policy and Management is intended for use in upper level courses in fire ecology and wildland fire management and as a reference for researchers managers and other professionals involved with wildland fire science practice and policy The book helps guide students and scientists to design and conduct robust wildland fire research projects and critically interpret and apply fire science in any management education or policy situation It emphasizes variability in wildland fire as an ecological regime and provides tools for students researchers and managers to assess and connect fire environment and fire behaviour to fire effects Fire has not only shaped social and ecological communities but pushed ecosystems beyond previous boundaries yet understanding the nature and effects of fire as an ecological disturbance has been slow hampered by the complexity of the dynamic interactions between vegetation and climate and the fear of the destruction fire can bring This book will help those who study manage and use wildland fire to develop new answers and novel solutions based on an understanding of how fire functions in natural and social environments It reviews literature synthesizes concepts and identifies research gaps and policy needs The text also explores the interaction of fire and human culture demonstrating how fire policy can be made adaptable to cultural and socio ecological objectives

Fire Ecology and Management: Past, Present, and Future of US Forested Ecosystems

Cathryn H. Greenberg, Beverly Collins, 2021-10-01 This edited volume presents original scientific research and knowledge synthesis covering the past present and potential future fire ecology of major US forest types with implications for forest management in a changing climate The editors and authors highlight broad patterns among ecoregions and forest types as well as detailed information for individual ecoregions for fire frequencies and severities fire effects on tree mortality and regeneration and levels of fire dependency by plant and animal communities The foreword addresses emerging ecological and fire management challenges for forests in relation to sustainable development goals as highlighted in recent government reports An introductory chapter highlights patterns of variation in frequencies severities scales and spatial patterns of fire across ecoregions and among forested ecosystems across the US in relation to climate fuels topography and soils ignition sources lightning or anthropogenic and vegetation Separate chapters by respected experts delve into the fire ecology of major forest types within US ecoregions with a focus on the level of plant and animal fire dependency and the role of fire in maintaining forest composition and structure The regional chapters also include discussion of historic natural lightning ignited and anthropogenic Native American settlers fire regimes current fire regimes as influenced by recent decades of fire suppression and land use history and fire management in relation to ecosystem integrity and restoration wildfire threat and climate change The summary chapter combines the major points of each chapter in a synthesis of US wide fire ecology and forest management into the future This book provides current organized readily accessible information for the conservation community land managers scientists students and educators and others interested in how fire behavior and effects on structure and composition differ among ecoregions and forest types and what that means for forest management today and in the future

Living with Fire Sara E. Jensen, Guy R. McPherson, 2008-08-04 Fire both inevitable and ubiquitous plays a crucial role in North American ecosystems But as necessary as fire is to maintaining healthy ecosystems it threatens human lives and livelihoods in unacceptable ways This volume explores the rich yet largely uncharted terrain at the intersection of fire policy fire science and fire management in order to find better ways of addressing this pressing dilemma Written in clear language it will help scientists policy makers and the general public especially residents of fire prone areas better understand where we are today in regard to coping with wildfires how we got here and where we need to go Drawing on abundant historical and analytic information to shed new light on current controversies Living with Fire offers a dynamic new paradigm for coping with fire that recognizes its critical environmental role The book also tells how we can rebuild the important ecological and political processes that are necessary for finding better ways to cope with fire and with other complex policy dilemmas

Tropical Fire Ecology Mark Cochrane, 2010-04-11 The tropics are home to most of the world's biodiversity and are currently the frontier for human settlement Tropical ecosystems are being converted to agricultural and other land uses at unprecedented rates Land conversion and maintenance almost always rely on fire and because of this fire is now more prevalent in the tropics than anywhere else on Earth Despite pervasive fire human settlement and threatened

biodiversity there is little comprehensive information available on fire and its effects in tropical ecosystems Tropical deforestation especially in rainforests has been widely documented for many years Forests are cut down and allowed to dry before being burned to remove biomass and release nutrients to grow crops However fires do not always stop at the borders of cleared forests Tremendously damaging fires are increasingly spreading into forests that were never evolutionarily prepared for wild fires The largest fires on the planet in recent decades have occurred in tropical forests and burned millions of hectares in several countries The numerous ecosystems of the tropics have differing levels of fire resistance resilience or dependence At present there is little appreciation of the seriousness of the wild fire situation in tropical rainforests but there is even less understanding of the role that fire plays in the ecology of many fire adapted tropical ecosystems such as savannas grasslands and other forest types

Fire Ecology and Management of the Major Ecosystems of Southern Utah, 2007 This document provides managers with a literature synthesis of the historical conditions current conditions fire regime condition classes FRCC and recommended treatments for the major ecosystems in southern Utah Sections are by ecosystems and include 1 coniferous forests ponderosa pine mixed conifer and Engelmann spruce subalpine fir 2 aspen 3 pinyon juniper 4 big and black sagebrush and 5 desert shrubs creosotebush blackbrush and interior chaparral Southern Utah is at the ecological crossroads for much of the western United States It contains steep environmental gradients and a broad range of fuels and fire regimes associated with vegetation types representative of the Rocky Mountains the Great Basin Northern Arizona and New Mexico and the Mohave Desert The Southern Utah Demonstration Area consists of contiguous state and federal lands within the administrative boundaries of the Bureau of Land Management BLM Fishlake and Dixie National Forests National Park Service and State of Utah roughly encompassing the southern 15 percent of Utah 3 24 million ha The vegetation types described are similar in species composition stand structure and ecologic function including fire regime to vegetation types found on hundreds of millions of hectares in the 11 western states

Fire Ecology and Prescribed Burning in the Great Plains Henry A. Wright, 1979

Fire Ecology in Rocky Mountain Landscapes William L. Baker, 2009-07-07 Fire Ecology in Rocky Mountain Landscapes is the first comprehensive review of scientific research on fire in Rocky Mountain ecosystems emphasizing the landscape scale It is essential reading for anyone concerned with fire and fire management including academic and agency scientists natural resource professionals and researchers professors and students involved with environmental science land management and resource management

Fire Ecology Henry A. Wright, Arthur W. Bailey, 1982-03-18 Regional Silviculture of the United States 2nd Edition John W Barrett This is the only regional silviculture text now on the market It assesses the significant biological physical and economic qualities of forest regions in the continental U S and their effect on silviculture practices The first chapter provides an overview of the forests of the U S and introduces the topic of social and institutional constraints on silviculture Subsequent chapters each deal with a specific forest region are written by a person intimately acquainted with the locality and follow a regular outline to provide cohesion and

facilitate regional comparisons 1980 551 pp Forest Ecology 3rd Edition Stephen H Spurr and Burton V Barnes The growing interest and literature in this field created a need for a fresh updating of this classic text It remains a comprehensive yet highly readable account of real world forests including ecological aspects of successful forest management Broad coverage embraces genetics and variation environmental factors site community relations ecosystem studies glacial forest history post settlement history composition and succession 1980 687 pp Wildlife Biology 2nd Edition Raymond F Dasmann This updated and revised edition of the standard introductory text brings together the principles of ecology and population biology and the practice of wildlife conservation and management It presents basic information on the value and present status of wild animal life including a history of human relationships with and attitudes toward wildlife Examines wildlife within the context of ecosystems indicating why single species approaches to conservation and management often fail 1981 212 pp *Fire and Ecosystems* T.T. Kozlowski, 2012-12-02 *Fire and Ecosystems* focuses on a number of aspects of fire ecology This book deals separately with both harmful and beneficial effects of fire on soils soil organisms animals and plants This reference material elucidates the effects of fire on grasslands and considers the role of fire in temperate forests and related ecosystems Four chapters are presented on a regional basis to highlight variations in responses especially plant succession to fire The use of fire in land management is also explored This book will serve as an invaluable reference material to researchers teachers and land managers

Introduction to Fire in California David Carle, 2021-08-20 An up to date essential guide to California's long relationship with fire for the climate change generation What is fire How are wildfires ignited How do California's weather and topography influence fire How did Indigenous people use fire on the land we now call California David Carle's clearly written dramatically illustrated first edition of *Introduction to Fire in California* helped Californians including the millions who live near naturally flammable wildlands better understand their own place in the state's landscape In this revised edition Carle covers the basics of fire ecology looks at the effects of fire on people wildlife soil water and air discusses fire fighting organizations and land management agencies and explains how to prepare for an emergency and what to do when one occurs This second edition brings the wildfire story up to the year 2020 with information about recent extreme and deadly fire events and the evidence that climate change is swiftly changing the wildfire story in California This update reflects current debates about California's future as a climate crisis leader facing massive annual natural disasters the future of California development and housing and the critically necessary alternatives to traditional energy options Features A larger more reader friendly page format More than 110 color illustrations and maps An overview of major wildfires in California's history An updated and expanded discussion of the effect of climate change on fires in natural landscapes Tips on what to do before during and after fires Discussion of utility companies and massive power shutoffs

Fire on Earth Andrew C. Scott, David M. J. S. Bowman, William J. Bond, Stephen J. Pyne, Martin E. Alexander, 2013-10-31 Earth is the only planet known to have fire The reason is both simple and profound fire exists because Earth is the only

planet to possess life as we know it Fire is an expression of life on Earth and an index of life's history Few processes are as integral unique or ancient Fire on Earth puts fire in its rightful place as an integral part of the study of geology biology human history physics and global chemistry Fire is ubiquitous in various forms throughout Earth and belongs as part of formal inquiries about our world In recent years fire literature has multiplied exponentially dedicated journals exist and half a dozen international conferences are held annually A host of formal sciences or programs announcing interdisciplinary intentions are willing to consider fire Wildfire also appears routinely in media reporting This full colour text containing over 250 illustrations of fire in all contexts is designed to provide a synthesis of contemporary thinking bringing together the most powerful concepts and disciplinary voices to examine in an international setting why planetary fire exists how it works and why it looks the way it does today Students lecturers researchers and professionals interested in the physical ecological and historical characteristics of fire will find this book and accompanying web based material essential reading for undergraduate and postgraduate courses in all related disciplines for general interest and for providing an interdisciplinary foundation for further study A comprehensive approach to the history behaviour and ecological effects of fire on earth Timely introduction to this important subject with relevance for global climate change biodiversity loss and the evolution of human culture Provides a foundation for the interdisciplinary field of Fire Research Authored by an international team of leading experts in the field Associated website provides additional resources *Fire Science* Francisco Castro Rego, Penelope Morgan, Paulo Fernandes, Chad Hoffman, 2021-09-24 This textbook provides students and academics with a conceptual understanding of fire behavior and fire effects on people and ecosystems to support effective integrated fire management Through case studies interactive spreadsheets programmed with equations and graphics and clear explanations the book provides undergraduate graduate and professional readers with a straightforward learning path The authors draw from years of experience in successfully teaching fundamental concepts and applications synthesizing cutting edge science and applying lessons learned from fire practitioners We discuss fire as part of environmental and human health Our process based comprehensive and quantitative approach encompasses combustion and heat transfer and fire effects on people plants soils and animals in forest grassland and woodland ecosystems from around the Earth Case studies and examples link fundamental concepts to local landscape and global fire implications including social ecological systems Globally fire science and integrated fire management have made major strides in the last few decades Society faces numerous fire related challenges including the increasing occurrence of large fires that threaten people and property smoke that poses a health hazard and lengthening fire seasons worldwide Fires are useful to suppress fires conserve wildlife and habitat enhance livestock grazing manage fuels and in ecological restoration Understanding fire science is critical to forecasting the implication of global change for fires and their effects Increasing the positive effects of fire fuels reduction enhanced habitat for many plants and animals ecosystem services increased while reducing the negative impacts of fires loss of human lives

smoke and carbon emissions that threaten health etc is part of making fires good servants rather than bad masters

Fire Ecology of Forests and Woodlands in Utah Anne F. Bradley, Nonan V. Noste, William C. Fischer, 1992 Provides information on fire as an ecological factor in forest habitat types and in pinyon juniper woodland and oak maple brushland communities occurring in Utah Identifies Fire Groups based on fire's role in forest succession Describes forest fuels and suggests considerations for fire management

Fire in Mediterranean Ecosystems Jon E. Keeley, William J. Bond, Ross A. Bradstock, Juli G. Pausas, Philip W. Rundel, 2011-12-30 Exploring the role of fire in each of the five Mediterranean type climate ecosystems this book offers a unique view of the evolution of fire adapted traits and the role of fire in shaping Earth's ecosystems Analyzing these geographically separate but ecologically convergent ecosystems provides key tools for understanding fire regime diversity and its role in the assembly and evolutionary convergence of ecosystems Topics covered include regional patterns the ecological role of wildfires the evolution of species within those systems and the ways in which societies have adapted to living in fire prone environments Outlining complex processes clearly and methodically the discussion challenges the belief that climate and soils alone can explain the global distribution and assembly of plant communities An ideal research tool for graduates and researchers this study provides valuable insights into fire management and the requirements for regionally tailored approaches to fire management across the globe

Ecological Restoration: Wildfire Ecology Reference Manual Doug Knowling, 2016-10-10 Fire ecology is a scientific discipline concerned with natural processes involving fire in an ecosystem and the ecological effects the interactions between fire and the abiotic and biotic components of an ecosystem and the role of fire as an ecosystem process

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