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*Ecological Restoration of Southwestern  
Ponderosa Pine Forests*



ECOLOGICAL RESTORATION INSTITUTE

Edited by PETER FRIEDERICK

FOREWORD BY GARY PAUL NABHAN

# Ecological Restoration Of Southwestern Ponderosa Pine Forests

**Daniela Niemeyer**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a gradient, partially overlapping the bar and extending to the right.

## **Ecological Restoration Of Southwestern Ponderosa Pine Forests:**

*Ecological Restoration of Southwestern Ponderosa Pine Forests* Peter Friederici, Northern Arizona University. Ecological Restoration Institute, 2003-05-16 Brings together the writings of practitioners and thinkers from a variety of fields including forestry biology philosophy ecology political science archaeology botany and geography to synthesize what is known about ecological restoration in ponderosa pine forests and to consider the factors involved in developing and implementing a successful restoration effort *Integrating Ecological Restoration and Conservation Biology* Reed F. Noss, 2006 Among the many challenges land managers face in implementing restoration projects one of the greatest is the difficulty of integrating restoration with other management imperatives One of the most significant of those is the need to manage natural areas for the conservation of native animal and plant species Some species are popular for hunting and wildlife watching many serve vital ecological roles many are rare and under special legal protection It is not always clear if their habitat needs are compatible with restoring ecological integrity across the landscape Yet there is evidence that ecological restoration can overlap to a large degree with the priorities of conservation biology In 2004 the Ecological Restoration Institute sponsored two workshops aimed at exploring this issue **Ponderosa Pine Ecosystems Restoration and Conservation**, 2001

**Restoring Spatial Pattern to Southwestern Ponderosa Pine Forests** Dave Egan, 2008 Until recently forest managers have largely ignored the value of maintaining dynamic spatial patterns in forested ecosystems In the American Southwest where the norm in overstocked forests that are extremely susceptible to catastrophic fires and or insect infestations and disease restoring a spatial pattern of openings and tree groups would help alleviate these threats and move the forests within their historic range of variability This ERI working paper focuses on restoring a dynamic spatial pattern to ponderosa pine forests in the American Southwest It also addresses basic questions that land managers and others have about how to restore active spatial patterns across the forested Southwest **Establishing Reference Conditions for Southwestern**

**Ponderosa Pine Forests** Peter Friederici, 2004 Restoration treatments that include prescribed burning often preceded by thinning to reduce fuel loads have the potential to improve the ecological health of these forests In order to wisely set the goals that underlie these treatments it is useful for us to know as much as possible about past forest conditions especially the reference conditions that existed before forest structure and function were altered by Euro American settlers They formed the evolutionary environment of southwestern ponderosa pine trees a fairly stable environment in other words in which this tree species and many other plants and animals evolved and adapted Restoring conditions similar to those of the evolutionary environment is not a matter of trying to return to the past rather it is only a way to assure the long term health of these forests into the future Restoration of Ponderosa Pine Forests to Presettlement Conditions Peter Friederici, 2005 This Working Paper is one of a series that describes the planning and implementation of restoration treatments in southwestern ponderosa pine forests In this paper the treatment type is designed to emulate the forest structure prevalent before the

landscape level disturbances that followed Euro American settlement It represents the best scientifically based knowledge currently available about treatment types and effects But this Working Paper is not a prescription Restoration decisions need to be made with close attention to local conditions there is no one size fits all approach and specific prescriptions must be determined according to project objectives Use this publication as an aid in making informed decisions about how to restore more natural conditions and greater health to the southwestern ponderosa pine forests Forest Restoration for Homeowners ,2003 The Stand Treatment Impacts on Forest Health (STIFH) Model Kimberly Lowe,2005 This Working Paper is one of a series that describes the planning and implementation of restoration treatments in southwestern ponderosa pine forests In this paper the treatment type is based on the Stand Treatment Impacts on Forest Health STIFH restoration treatments multi aged group selection It represents the best scientifically based knowledge currently available about treatment types and effects But this Working Paper is not a prescription Restoration decisions need to be made with close attention to local conditions there is no one size fits all approach and specific prescriptions must be determined according to project objectives Use this publication as an aid in making informed decisions about how to restore more natural conditions and greater health to the southwestern ponderosa pine forests **Managing Gambel Oak in Southwestern Ponderosa Pine Forests** Scott R. Abella,2008 Gambel oak *Quercus gambelii* is a key deciduous species in southwestern ponderosa pine *Pinus ponderosa* forests and is important for wildlife habitat soil processes and human values This report 1 summarizes Gambel oak s biological characteristics and importance in ponderosa pine forests 2 synthesizes literature on changes in tree densities and fire frequencies since Euro American settlement in pine oak forests 3 suggests management prescriptions for accomplishing various oak management objectives for example increasing diameter growth or acorn production and 4 provides an appendix containing 203 Gambel oak literature citations organized by subject Nine studies that reconstructed Gambel oak density changes since settlement in the late 1800s reported that densities of small oaks have escalated with increases ranging from 4 to more than 63 fold A possible argument for passive oak management that overall oak abundance has decreased is not supported by published research Manipulating oak growth forms is one of the main means for managing oak and ecosystem components affected by oak Published research has classified variants of three basic oak growth forms shrubby thickets of small stems pole sized clumps and large trees Burning and cutting constitute major prescriptions for manipulating these growth forms whereas pine thinning has most consistently increased oak diameter growth for promoting large oaks Because of their high ecological value large old oaks should be retained in any management prescription Sufficient research has been published on which to base some oak management prescriptions but additional research on poorly understood aspects of oak s ecology is needed to refine and improve oak management **Restoring Native Plants and Landscapes** ,2004 Ecological Restoration of Southwestern Ponderosa Pine Ecosystems: A Broad Perspective Craig D. et al Allen, *Songbird Ecology in Southwestern Ponderosa Pine Forests* William M. Block, Deborah M. Finch,1997

**Songbird Ecology in Southwestern Ponderosa Pine Forests** ,1997      *Collaboration as a Tool in Forest Restoration*

Kimberly Lowe,2005 Many policy makers stakeholders and land management agencies have embraced collaborative approaches as a means of guiding forest management on public lands A growing number of federal policies such as the Healthy Forests Restoration Act of 2003 and the Facilitation of Cooperative Conservation Executive Order 13352 of August 26 2004 call for cooperative conservation by encouraging federal agencies to work collaboratively with multiple stakeholders on natural resource management issues These directives have created both optimism and uncertainty This publication presents an overview of collaborative forest restoration including its benefits and challenges      Southwestern Forests Ecological Restoration Project Thomas A. Heinlein,2001      *Simulating the Effects of Climate Change and Ecological*

*Restoration on Wildfire Behavior in Southwestern Ponderosa Pine Forests* Kristen Honig,2010      **Restoring the Uinkaret Mountains** ,2002 Since 1995 the Ecological Restoration Institute ERI at Northern Arizona University NAU has been working with the Bureau of Land Management BLM and Arizona Game and Fish Department AGFD to implement and monitor large scale ponderosa pine forest ecosystem restoration in northwest Arizona This work has already produced many valuable lessons that have been applied to restoration in the Uinkaret Mountains on the Arizona Strip but many of those lessons may also be useful elsewhere This document summarizes operational lessons learned during more than five years of intensive research and suggests how it may be applied at other ponderosa pine restoration sites in the Southwest      Proceedings :  
International Conference on Transfer of Forest Science Knowledge and Technology ,2007      **Proceedings, International**

**Conference on Transfer of Forest Science Knowledge and Technology** Cynthia Louise Miner,2009 Compiles papers presented by extensionists natural resource specialists tech transfer specialists and others at a conf that examined tech transfer theories methods and case studies Topics included adult educ extension diffusion of innovations social marketing tech transfer etc Descriptions of methods and case studies included combined digital media engagement of users and commun specialists in research integrated forestry applications Internet based systems science writing training video conf Web based ency etc Innovations transferred were best mgmt practices for water quality reforestation practices land mgmt system portable timber bridges reduced impact logging silvicultural practices urban forestry etc Illustrations      **The Colorado Plateau II** Charles Van Riper,David John Mattson,2005 The publication of The Colorado Plateau Cultural Biological and Physical Research in 2004 marked a timely summation of current research in the Four Corners states This new volume derived from the seventh Biennial Conference on the Colorado Plateau in 2003 complements the previous book by focusing on the integration of science into resource management issues The 32 chapters range in content from measuring human impacts on cultural resources through grazing and the wildland urban interface issues to parameters of climate change on the Plateau The book also introduces economic perspectives by considering shifting patterns and regional disparities in the Colorado Plateau economy A series of chapters on mountain lions explores the human wildland interface

These chapters deal with the entire spectrum of challenges associated with managing this large mammal species in Arizona and on the Colorado Plateau conveying a wealth of timely information of interest to wildlife managers and enthusiasts Another provocative set of chapters on biophysical resources explores the management of forest restoration from the micro scale all the way up to large scale GIS analyses of ponderosa pine ecosystems on the Colorado Plateau Given recent concerns for forest health in the wake of fires severe drought and bark beetle infestation these chapters will prove enlightening for forest service park service and land management professionals at both the federal and state level as well as general readers interested in how forest management practices will ultimately affect their recreation activities With broad coverage that touches on topics as diverse as movement patterns of rattlesnakes calculating watersheds and rescuing looted rockshelters this volume stands as a compendium of cutting edge research on the Colorado Plateau that offers a wealth of insights for many scholars

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