Ecological Succession

The natural progression of plant communities over time

The southeastern United States has five stages of succession identified by dominant vegetation types. Moving through each stage is gradual and no specific point defines transition. Timing of each stage, as well as plant species, is affected by soil, climate, and additional disturbances. Understanding the concept of ecological succession is the basis for all forestry and wildlife management.

Annual Grasses and Forbs | **Perennial Grasses, Forbs, and Brambles** | **Young Forest** | **Mature Forest**

- Prescribed fire
- Wildfire
- Timber harvest
- Mowing
- Disking
- Tree death
- Storm damage
- Drought

Disturbance is the key component in ecological succession. Without it, plant communities transition to become more stable, which will decrease species diversity.

- Common ragweed
- Partridge pea
- Carolina geranium
- Horseweed
- Annual fleabane
- Black-eyed Susan
- Passionflower
- Pokeweed
- Witchgrass
- Morning glory
- Beggar's lice
- Florida pusley
- Fall panicum

- Goldenrod
- Blackberry
- Pokeweed
- Dog fennel
- Winged sumac
- Broomsedge
- Big bluestem
- Little bluestem
- Indiangrass
- Brazilian verbena*
- Wild mustard

Longleaf pine systems must be maintained with frequent fire. These systems do not fit the traditional successional format. In longleaf pine dominant systems, the overstory is managed as a climax forest, while the understory consists of early successional plant communities (1 to 5 years).

Northern bobwhite, eastern cottontail, white-tailed deer, and numerous song birds thrive in areas with frequent disturbance (one-four 5 years frequency). Habitat needs are met by the diversity of vegetation types.

- Southern pine species
- Sweetgum
- Yellow-poplar
- Black cherry
- Gallberry
- Yaupon
- Poison ivy
- American beautyberry
- Red maple
- Privet*
- Chinaberry*

* Indicates nonnative species

In this stage, dominant species are shade intolerant and fast growing. These species form a canopy, shading out forbs, brambles, and grasses in the understory.

- Yellow-poplar
- White oak
- Water oak
- Hickory spp.
- Southern magnolia
- Common persimmon
- American holly
- American beech
- Poison ivy
- Wild ginger
- Virginia creeper
- Saw palmetto

Climax forest is another term for the final stage of succession. In Alabama, this stage typically dominated by oak species within a region without any form of disturbance.

Extension

Ecological Succession

Lawrence R. Walker,Joe Walker,Richard J. Hobbs

Ecological Succession:

Directing Ecological Succession J.O. Luken,1990-09-30 Succession the tendency of plant communities to change through time presents a challenge to those who must satisfy goals established for the use and preservation of natural resources The practical application of what is known about successional changes has not advanced quickly subsequently plant community management is often carried out without recourse to the latest scientific data **Linking Restoration and Ecological Succession** Lawrence R. Walker,Joe Walker,Richard J. Hobbs,2007-10-16 While studies of restoration and ecological succession have been published independently there is much overlap between these approaches that has not been adequately explored Linking Restoration and Ecological Succession integrates practical information from restoration projects around the world with the latest developments in successional theory This innovative book recognizes the critical roles of disturbance ecology landscape ecology ecological assembly invasion biology ecosystem health and historical ecology in habitat restoration and argues that restoration within a successional context will best utilize the lessons from each of these disciplines To successfully restore an ecosystem that needs minimal care the temporal dynamics of successional processes must be considered By re examining restoration in the light of succession the authors hope to encourage the development of new approaches to the practice of restoration supported by solid ecological principles **Tropical Ecosystems and Ecological Concepts** Patrick L. Osborne,2000-08-31 An introductory textbook on tropical ecology unique in its international scope and balanced coverage of both aquatic and terrestrial systems *Environmental Science* Bernard J. Nebel,Richard T. Wright,1993 Revolving around the principles of sustainability this new edition sets out to provide students with a balanced complete treatment of environmental issues their scientific basis history and future Material is revised to reflect changing environmental understanding and issues Competition Science Vision ,2005-12 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue The Science of Water Frank R. Spellman,2000-01-01 Water water everywhere with this in mind the perennial question in water works remains can the earth s finite supply of water resources be increased to meet the constantly growing demand Hailed on its first publication as a masterful account of the state of water science this second edition of the bestselling The Science of Water Concepts and Applications puts the spotlight on the critical importance of water s role in future sustainability Clearly written and user friendly this timely revision builds on the remarkable success of the first edition by updating reorganizing and revising the original to include the

latest information and research results The common thread woven through the fabric of this presentation is water resource utilization and its protection It covers topics such as water sources water hydraulics chemistry biology microbiology ecology water quality pollution biomonitoring sampling testing reuse and treatment The author examines the impact of human use misuse and reuse of freshwater and wastewater on the overall water supply Authoritative informative and up to date the book blends real world experience with theoretical models This work provides the valuable insight all water wastewater practitioners need and includes important information for policymakers and anyone else tasked with making decisions concerning water resource utilization **Human Ecology** Gerald G. Marten,2001 The scope and clarity of this book make it accessible and informative to a wide readership Its messages should be an essential component of the education for all students from secondary school to university It provides a clear and comprehensible account of concepts that can be applied in our individual and collective lives to pursue the promising and secure future to which we all aspire From the Foreword by Maurice Strong Chairman of the Earth Council and former Secretary General of the United Nations Conference on Environment and Development Earth Summit The most important questions of the future will turn on the relationship between human societies and the natural ecosystems on which we all in the end depend The interactions and interdependencies of the social and natural worlds are the focus of growing attention from a wide range of environmental social and life sciences Understanding them is critical to achieving the balance involved in sustainable development Human Ecology Basic Concepts for Sustainable Development presents an extremely clear and accessible account of this complex range of issues and of the concepts and tools required to understand and tackle them Extensively supported by graphics and detailed examples this book makes an excellent introduction for students at all levels and for general readers wanting to know why and how to respond to the dilemmas we face **Modern Trends in Applied Terrestrial Ecology** R.S. Ambasht,Navin K. Ambasht,2012-12-06 Ecology and economics have Greek roots in oikos for household logos for study and nomics for management Thus ecology and economics should have complemented one another for a proper growth and development without destruction but unfortunately rapid industrialization lure for fast financial gains and commercialization activities have led to a widespread surge in pollution load environmental degradation habitat destruction rapid loss ofbiodiversity sudden rise in rate ofextinction ofmany wildlife and wild relatives of domesticated animals and cultivated cereals and other plants global climate changes creating global rise in temperature and CO levels and increased ultraviolet B at ground 2 level Although these threats to human health have led us to look to ecology for their solutions and guidance for sustainable development without destruction the industrial and technology houses are looking for alternative methods of development and resource use methods The two global conferences of the United Nations in 1972 and 1992 and international programs of Man and the Biosphere MAB International Biological Program IBP International Geosphere Biosphere program lGBP and World Conser vation Union IUCN of different commissions United Nations Environmental Program UNEP efforts

Ramsar Conventions for wetlands and World Wide fund for Nature WWF for nature in general and wildlife in particular have focused attention of ecologists naturalists governments and Non governmental organizations NGOs toward better conservation Textbook of Environment and Ecology Vir Singh,2024-03-22 This textbook is focused on fundamentals of environment and ecology for undergraduate and graduate students This is first of its kind book dealing with physical environment ecosystems biological diversity environmental pollution and environment influenced natural resource ecology and management This will cater to the needs of the students examinees trainees and teachers It consists of 23 chapters spread over 5 sections i e ecosystem analysis natural resources biodiversity environmental disruptions and environmental management The textbook is well aligned with the syllabus of all central and state universities and offers the latest insights as well to the students of undergraduate and postgraduate courses of ecology and environmental sciences Every chapter provides summary points to remember and exercises Each exercise includes 20 multiple choice questions 10 short answer questions and 5 long answer questions The textbook is a comprehensive coverage for basic and advanced courses in ecology and environmental sciences Each topic is supported by illustrations tables and information boxes etc Insect Ecology Peter W. Price,Robert F. Denno,Micky D. Eubanks,Deborah L. Finke,Ian Kaplan,2011-08-18 Combining breadth of coverage with detail this logical and cohesive introduction to insect ecology couples concepts with a broad range of examples and practical applications It explores cutting edge topics in the field drawing on and highlighting the links between theory and the latest empirical studies The sections are structured around a series of key topics including behavioral ecology species interactions population ecology food webs communities and ecosystems and broad patterns in nature Chapters progress logically from the small scale to the large from individual species through to species interactions populations and communities Application sections at the end of each chapter outline the practicality of ecological concepts and show how ecological information and concepts can be useful in agriculture horticulture and forestry Each chapter ends with a summary providing a brief recap followed by a set of questions and discussion topics designed to encourage independent and creative thinking **Ecology, Environment and Pollution** Felix Sweeney & Riley Mitchell,2019-01-01 Ecology is the scientific study of the distributions abundance and relations of organisms and their interactions with the environment Ecology includes the study of plant and animal populations plant and animal communities and ecosystems Ecosystems describe the web or network of relations among organisms at different scales of organization An ecosystem is a self contained dynamic system made of a population of species in its physical environment This concept is used to study the complex interactions between the organisms plants animals bacteria and fungi that make up the community There are many different ways in which the community of organisms interacts Environment means everything around to a living being Especially the circumstances of life of people or society in their life conditions It comprises the set of natural social and cultural values existing in a place and at a particular time that influence in the life of the human being and in the generations to come Pollution is anything that makes the earth dirty and

unhealthy Land air and water are all affected by pollution Pollution takes up space on our land Many of the things people use every day come in packages like food games school supplies and electronics Environmental science is the systematic study of our environment and our proper place in it A relatively new field environmental science is highly interdisciplinary integrating natural sciences social sciences and humanities in a broad holistic study of the world around us The aim of the present book is to provide its readers an acquaintance with the recent research trends in the area of ecology environmental science and pollution *Forest Succession* D. C. West,H. H. Shugart,D. F. Botkin,2012-12-06 Succession nothing in plant community or ecosystem ecology has been so elaborated by terminology so much reviewed and yet so much the center of controversy In a general sense every ecologist uses the concept in teaching and research but no two ecologists seem to have a unified concept of the details of succession The word was used by Thoreau to describe from a naturalist s point of view the general changes observed during the transition of an old field to a forest As data accumulated a lengthy taxonomy of succession developed around early twentieth century ecologists such as Cooper Clements and Gleason Now nearer the end of the century and after much discussion concerning the nature of vegetation communities where do ecologists stand with respect to knowledge of ecological succession The intent of this book is not to rehash classic philosophies of succession that have emerged through the past several decades of study but to provide a forum for ecologists to present their current research and present day interpretation of data To this end we brought together a group of scientists currently studying terrestrial plant succession who represent research experience in a broad spectrum of different ecosystem types The results of that meeting led to this book which presents to the reader a unique summary of contemporary research on forest succession *Plant Succession* D.C. Glenn-Lewin,R.K. Peet,T.T. Veblen,1992-11-30 Succession is the term used to describe the phenomenon of changes in vegetational types in both time and space The subject of the colonization and exploitation of new areas by plants is a key one in ecology and this book summarizes the theoretical arguments currently raging about the topic **Ecological Succession** Mary Luzier,2017-09-27 Ecological succession is the process of change in the species structure of an ecological community over time It is a phenomenon or process by which an ecological community undergoes more or less orderly and predictable changes following a disturbance or the initial colonization of a new habitat Succession may be initiated either by formation of new unoccupied habitat such as from a lava flow or a severe landslide or by some form of disturbance of a community such as from a fire severe windthrow or logging Succession that begins in new habitats uninfluenced by pre existing communities is called primary succession whereas succession that follows disruption of a pre existing community is called secondary succession *Ecological Succession on Fallowed Shifting Cultivation Fields* Claudio O. Delang,Wing Man Li,2012-12-20 The book reviews the literature on the ecological succession of plants on fallowed swiddens in tropical forests Patterns of ecological succession in tropical forests are insufficiently understood partly because results are scattered through a large number of case studies reported in academic articles So far no publication has attempted to bring these different case

studies together to identify common patters and trends The goal of the book is to review the different case studies and identify common patterns of ecological succession in fallowed swiddens as well as to pinpoint the factors that cause ecological succession in some areas to differ from those in other areas The book is organised in four different sections forest structure forest diversity species composition and the factors that contribute to differences in forest recovery rates the number of times the field was burned the length of fallow period the type of soil and the type of forest This book is an important contribution to tropical forestry and shifting cultivation Deforestation and forest degradation are the largest sources of CO2 and shifting cultivation is one of the main culprits For this and other economic and political reason governments attempt to curtail shifting cultivation by shortening the years the fields can be left fallow or outright outlawing the farming practice Yet there is insufficient understanding of the processes of ecological succession in fallows which raises the questions as to whether the policy fulfils its objectives **Ecological Succession** Frank B. Golley,1977 Part I the precursors Part II the pattern Part III mechanisms Part IV Interpretation Part v community stability **Readings on Ecological Systems: Their Function and Relation to Man** Ariel E. Lugo,1971 **Field and Laboratory Methods for General Ecology** James E Brower,Jerrold H Zar,Carl N. von Ende,1998 This introductory ecology lab manual focuses on the process of collecting recording and analyzing data and equips students with the tools they need to function in more advanced science courses It reflects the most current techniques for data gathering so that students can obtain the most accurate samples Balanced coverage of plant animal and physical elements offers a diverse range of exercises Includes exercise on writing research reports Ecological Systems and the Environment Theodore C. Foin,1976 **A Practical Guide to Environmental Impact Assessment** Paul A. Erickson,1994 Impact assessment has become a crucial element of the interface between society and the environment This practical guide to the assessment process will help ecologists environmental scientists and civil engineers to identify the conceptual foundation of the assessments they are preparing The guide is also intended to help policy makers understand the scientific basis for these surveys as well as the biotic and abiotic parameters A Practical Guide to Environmental Impact Assessment will appeal to a broad cross section of those pondering land use decisions Key Features A conceptual guide to technical and scientific issues relevant to impact assessment Does not assume special training Useful regardless of political or social context within which impact is being assessed Provides both planners and impact assessors with background necessary for evaluating environmental impacts Covers both physical and social parameters that influence impact assessment

Decoding **Ecological Succession**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Ecological Succession**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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