

# **New Models For Ecosystem Dynamics And Restoration The Science And Practice Of Ecological Restoration Series**

New Models for Ecosystem Dynamics and Restoration River Quality Old Fields PLUMP, a Plume Predictor and Cloud Model for Fire Managers General Technical Report INT. Wildlife Conservation on Farmland: Managing for nature on lowland farms Flood Pulsing in Wetlands Trout and Salmon The Competition–colonization Equations Dynamics, Repairs and Restoration Pacific Conservation Biology The Principles and Practice of Statics and Dynamics with Those of Liquids and Gases Pacific Affairs Electrodynamics Wave–theory of Physical Forces International Record of Medicine and General Practice Clinics Ecological Society of America ... Annual Meeting Abstracts The Role of Restoration in Ecosystem Management Annual Report Biodynamics Proceedings of the American Power Conference Richard J. Hobbs David A. Dunnette Richard J. Hobbs Don J. Latham David Whyte Macdonald Beth A. Middleton Trevor Crisp Clarence Leslie Lehman C. A. Brebbia Thomas Baker Thomas Jefferson Jackson See Edward Swift Dunster Ecological Society of America. Meeting Society for Ecological Restoration. Conference CALFED Bay–Delta Program Boris Sokoloff

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as scientific understanding about ecological processes has grown the idea that ecosystem dynamics are complex nonlinear and often unpredictable has gained prominence of particular importance is the idea that rather than following an inevitable progression toward an ultimate endpoint some ecosystems may occur in a number of states depending on past and present ecological conditions the emerging idea of restoration thresholds also enables scientists to recognize when ecological systems are likely to recover on their own and when active restoration efforts are needed conceptual models based on alternative stable states and restoration thresholds can help inform restoration efforts new models for ecosystem dynamics and restoration brings together leading experts from around the world to explore how conceptual models of ecosystem dynamics can be applied to the recovery of degraded systems and how recent advances in our understanding of ecosystem and landscape dynamics can be translated into conceptual and practical frameworks for restoration in the first part of the book background chapters present and discuss the basic concepts and models and explore the implications of new scientific research on restoration practice the second part considers the dynamics and restoration of different ecosystems ranging from arid lands to grasslands woodlands and savannahs to forests and wetlands to production landscapes a summary chapter by the editors discusses the implications of theory and practice of the ideas described in preceding chapters new models for ecosystem dynamics and restoration aims to widen the scope and increase the application of threshold models by critiquing their application in a wide range of ecosystem types it will also help scientists and restorationists correctly diagnose ecosystem damage identify restoration thresholds and develop corrective methodologies that can overcome such thresholds

what is involved in restoring a river river quality dynamics and restoration answers this question through a series of articles and case studies written by some of the field s leading researchers and practitioners the first part of the book covers the physical chemical and biological dynamics of a river system the second part describes monitoring programs and remedial measures used to restore river systems back to healthy and functional states the willamette river in oregon and the vistula river in poland are used to illustrate the dynamic and restoration processes each river is in a different stage of restoration and is subjected to different degrees of stress from agriculture industry and urbanization the willamette is an internationally cited example of a restored river while the vistula is a river that has just recently begun the restoration process contrasts and comparisons of the two river systems enable readers to learn the limitations of restoration processes and what is involved in the different stages of restoration

land abandonment is increasing as human influence on the globe intensifies and various ecological social and economic factors conspire to force the cessation of agriculture and other forms of land management the old fields that result from abandonment have been the subject of much study yet few attempts have been made to examine the larger questions raised by old field dynamics old fields brings together leading experts from around the world to synthesize past and current work on old fields providing an up to date perspective on the ecological dynamics of abandoned land the book gives readers a broad understanding of why agricultural land is abandoned the factors that determine the ecological recovery of old fields and how this understanding contributes to theoretical and applied ecology twelve case studies from diverse geographical and climatic areas including australian rainforest brazilian amazonia new jersey piedmont and south african renosterveld offer a global perspective on the causes and results of land abandonment concluding chapters consider the similarities and differences among the case studies examine them in the context of ecological concepts and discuss their relevance to the growing field of restoration ecology old fields is the first book to draw together studies on old fields from both a theoretical and practical perspective it represents an important contribution to the development of theory on old field dynamics and the practice of ecological restoration on abandoned farmland and the broader implications of old field dynamics to ecology and restoration

this volume reveals how agricultural systems and wildlife interact presenting examples from scales varying from landscape to microcosm from populations to individuals covering plants invertebrates birds and mammals

the latest cutting edge research on flood pulsing and wetland restoration in north america presenting the latest research from leaders in the field of restoration ecology flood pulsing in wetlands reflects the current movement to incorporate flood pulsing into wetland restoration efforts emphasizing how integral flood pulsing is to successful wetland restoration the book s contributors provide descriptions of restoration projects across north america in which flood pulsing has been primarily used to restore beneficial hydrodynamic conditions to floodplain areas and improve or save vegetation wildlife and terrain detailing the importance and applicability of recreating flood pulsed conditions on floodplains for successful restoration the first chapter introduces the concept of flood pulse and its unique role in wetland restoration the following chapters detail the strategies and results of individual projects and the impact flood pulsing had on the projects overall goals case studies detail the history of each region such as the southwest including the sonoran desert communities and the middle rio grande the

missouri river in montana the illinois river valley and the southeast including brushy lake arkansas also documented is the most famous case of flood pulsing used in the restoration of an entire landscape the kissimmee river project approaches used to restore specific plant and animal populations the unique ecological concerns of each region and the future outlook for each area are fully described extensive bibliographies for each chapter make flood pulsing in wetlands restoring the natural hydrological balance the essential reference for restoration ecologists consultants in wetland restoration government and restoration agency employees land managers ecologists foresters and geologists

this important book contains a great wealth of practical information on trout and salmon species of fish that are of huge scientific and commercial interest the introductory chapters of trout and salmon cover the biology and environmental variables of importance when considering these species further chapters encompass current information on the ecology of salmon and trout with particular emphasis on the definition and quantification where possible of their environmental requirements and limitations comprehensive coverage of the impacts of human activities on trout and salmon is included together with important aspects of relevance when considering issues of species conservation and habitat restoration the book concentrates on the two species of the genus salmo with many references and comparisons with the genus oncorhynchus conclusions drawn within the book apply to both genera and as such the book will have relevance for both europe and north america as well as other areas where these genera occur trevor crisp has written a book that will be of great interest and use to fish biologists and fisheries scientists to aquatic biologists conservationists ecologists and environmental scientists the book will be particularly valuable for those working in government environment agencies and fish and wildlife departments and to all those involved in the management of these important species their fisheries and habitats

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