

Ecological Studies 125

**Fritz L. Knopf
Fred B. Samson** Editors

**Ecology and
Conservation of
Great Plains
Vertebrates**



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Ecology And Conservation Of Great Plains Vertebrates

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Ecology And Conservation Of Great Plains Vertebrates:

Ecology and Conservation of Great Plains Vertebrates Fritz L. Knopf, Fred B. Samson, 1997 The Great Plains prairie historically the largest single terrestrial ecosystem in North America is now also its most threatened Ecology and Conservation of Great Plains Vertebrates relates changes in grassland ecosystems to the ecology of vertebrate animals inhabiting the prairie

Ecology and Conservation of Great Plains Vertebrates Fritz L. Knopf, Fred B. Samson, 2013-04-17 The frontier images of America embrace endless horizons majestic herds of native ungulates and romanticized life styles of nomadic peoples The images were mere reflections of vertebrates living in harmony in an ecosystem driven by the unpredictable local and regional effects of drought fire and grazing Those effects often referred to as ecological disturbances are rather the driving forces on which species depended to create the spatial and temporal heterogeneity that favored ecological prerequisites for survival A landscape viewed by European descendants as monotony interrupted only by extremes in weather and commonly referred to as the Great American Desert this country was to be rushed through and cursed a barrier that hindered access to the deep soils of the Oregon country the rich minerals of California and Colorado and the religious freedom sought in Utah Those who stayed for lack of resources or stamina spent a century trying to moderate the ecological dynamics of Great Plains prairies by suppressing fires planting trees and exotic grasses poisoning rodents diverting waters and homogenizing the dynamics of grazing with endless fences all creating bound an otherwise boundless vista arises in Historically travelers and settlers referred to the area of tallgrasses along the western edge of the deciduous forest and extending midway across Kansas as the True Prairie The grasses thinned and became shorter to the west an area known then as the Great Plains

Ecology and Conservation of Great Plains Vertebrates Fritz L. Knopf, Fred B. Samson, 2014-01-15

Great Wildlife of the Great Plains Paul A. Johnsgard, 2003 Provides an overview of 121 birds mammals and reptiles native to the Great Plains organized by habitat with information on each animal's behavior and ecology

Ecology of the Shortgrass Steppe W. K. Lauenroth, I. C. Burke, 2008-08-28 Ecology of the Shortgrass Steppe A Long Term Perspective summarizes and synthesizes more than sixty years of research that has been conducted throughout the shortgrass region in North America The shortgrass steppe was an important focus of the International Biological Program's Grassland Biome project which ran from the late 1960s until the mid 1970s The work conducted by the Grassland Biome project was preceded by almost forty years of research by U S Department of Agriculture researchers primarily from the Agricultural Research Service and was followed by the Shortgrass Steppe Long Term Ecological Research project This volume is an enormously rich source of data and insight into the structure and function of a semiarid grassland

Wildlife of Nebraska Paul A. Johnsgard, 2020-10-01 In *Wildlife of Nebraska A Natural History* Paul A. Johnsgard surveys the variety and biology of more than six hundred Nebraska species Narrative accounts describe the ecology and biology of the state's birds its mammals and its reptiles and amphibians summarizing the abundance distributions and habitats of this

wildlife To provide an introduction to the state's major ecosystems climate and topography Johnsgard examines major public access natural areas including national monuments wildlife refuges and grasslands state parks and wildlife management areas and nature preserves Including more than thirty five line drawings by the author along with physiographic ecological and historical maps Wildlife of Nebraska is an essential guide to the wildlife of the Cornhusker State Wide Rivers Crossed Ellen E. Wohl, 2013-06-15 In Wide Rivers Crossed Ellen Wohl tells the stories of two rivers the South Platte on the western plains and the Illinois on the eastern to represent the environmental history and historical transformation of major rivers across the American prairie Wohl begins with the rivers natural histories including their geologic history physical characteristics ecological communities and earliest human impacts and follows a downstream and historical progression from the use of the rivers resources by European immigrants through increasing population density of the twentieth century to the present day During the past two centuries these rivers changed dramatically mostly due to human interaction Crops replaced native vegetation excess snowmelt and rainfall carried fertilizers and pesticides into streams and levees dams and drainage altered distribution These changes cascaded through networks starting in small headwater tributaries and reduced the ability of rivers to supply the clean water fertile soil and natural habitats they had provided for centuries Understanding how these rivers and rivers in general function and how these functions have been altered over time will allow us to find innovative approaches to restoring river ecosystems The environmental changes in the South Platte and the Illinois reflect the relentless efforts by humans to control the distribution of water to enhance surface water in the arid western prairie and to limit the spread of floods and drain the wetlands along the rivers in the water abundant east Wide Rivers Crossed looks at these historical changes and discusses opportunities for much needed protection and restoration for the future

Assessment of Grassland Ecosystem Conditions in the Southwestern United States, 2004 Volume 2 this volume describes wildlife and fish species their habitat requirements and species specific management concerns in Southwestern grasslands This assessment is regional in scale and pertains primarily to lands administered by the Southwestern Region of the USDA Forest Service Arizona New Mexico western Texas and western Oklahoma Abstract *Kansas Fishes* Kansas Fishes Committee, 2014-07-15 A guide and a first rate reference for the angler scientist and amateur naturalist alike this comprehensive volume profiles each of the 144 fish species inhabiting the waterways of Kansas as well as 27 others that might make their way to the state from nearby river basins With 121 maps and 184 full color drawings by Joseph Tomelleri arguably the best illustrator of North American fishes Kansas Fishes is an incomparable resource For each species the authors an all star cast of regional biologists provide information about fundamental natural history anatomy and physiology along with in state distributions habitats characteristics and pertinent issues of conservation and ecology With these experts authoring detailed accounts of the species they know best this is a uniquely authoritative account of the region's fishes As such it will prove useful to students and professionals while providing the passionate amateur and the simply curious an

entry into the fascinating world of the fishes of Kansas and nearby states The Kansas Fishes Committee members represent each of the six state universities Emporia State Fort Hays State Kansas State Pittsburg State and Wichita State Universities and the University of Kansas as well as the Kansas Biological Survey the Kansas Department of Health and Environment and the Kansas Department of Wildlife Parks and Tourism the people responsible for studying protecting and educating people about the fishes and waters of Kansas In addition to the committee nearly 50 biologists from the United States and Canada volunteered to contribute species accounts to the book based on their expertise with those species in Kansas and nearby states These individuals work for a variety of universities federal and state agencies and private companies making this book a broad collaboration of experts on the fish species of Kansas

Assessment of Grassland Ecosystem Conditions in the Southwestern United States: Wildlife and fish ,2004 Volume 2 Wildlife and fish **Flood Pulsing in Wetlands** Beth A.

Middleton,2002-10-01 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

Aquatic Humic Substances Dag Hessen,Lars J. Tranvik,2013-03-09 Humic substances occur in all kinds of aquatic systems but are particularly important in northern coniferous areas They strongly modify the aquatic ecosystems and also constitute a major problem in the drinking water supply This volume covers all aspects of aquatic humic substances from their origin and chemical properties their effects on light and nutrient regimes and biogeochemical cycling to their role regarding organisms productivity and food web organization from bacteria to fish Special emphasis is paid to carbon cycling and food web organization in humic lakes but aspects of marine carbon cycling related to humus are treated as well

Ecosystem Approaches to Landscape Management in Central Europe J.D. Tenhunen, R. Lenz, Ralph Hantschel, 2001-01-25

The challenges in ecosystem science encompass a broadening and strengthening of interdisciplinary ties the transfer of knowledge of the ecosystem across scales and the inclusion of anthropogenic impacts and human behavior into ecosystem landscape and regional models The volume addresses these points within the context of studies in major ecosystem types viewed as the building blocks of central European landscapes The research is evaluated to increase the understanding of the processes in order to unite ecosystem science with resource management The comparison embraces coastal lowland forests associated wetlands and lakes agricultural land use and montane and alpine forests Techniques for upscaling focus on process modelling at stand and landscape scales and the use of remote sensing for landscape level model parameterization and testing The case studies demonstrate ways for ecosystem scientists managers and social scientists to cooperate

Rivers in the Landscape Ellen Wohl, 2014-03-07 Rivers in the Landscape Science and Management offers a comprehensive and accessible overview of the current state of knowledge for river process and form taking a holistic approach to the subject with coverage of integrated river science and management in practice The processes and forms present in channelized surface flow rivers are systematically explored in this book to emphasize the connectivity between rivers and the greater landscape by explicitly considering the interactions between rivers and tectonics climate biota and human activities provide a concise summary of the current state of knowledge for physical process and form in rivers reflect the diversity of river environments from mountainous headwater channels to large lowland floodplain rivers and from the arctic to the tropics reflect the diverse methods that scientists use to characterize and understand river process and form including remote sensing field measurements physical experiments and numerical simulations reflect the increasing emphasis on quantification in fluvial geomorphology and the study of Earth surfaces in general provide both an introduction to the classic foundational papers on each topic and a guide to the latest particularly insightful and integrative references Aimed at advanced undergraduate students graduate students and professionals looking for a concise summary of physical aspects of rivers this book emphasizes general principles and conceptual models as well as concrete examples of each topic drawn from the extensive literature on river process and form

Geocology of Antarctic Ice-Free Coastal Landscapes

L. Beyer, 2002-03-26 Research in Antarctica in the past two decades has fundamentally changed our perceptions of the southern continent This volume describes typical terrestrial environments of the maritime and continental Antarctic Life and chemical processes are restricted to small ranges of ambient temperature availability of water and nutrients This is reflected not only in life processes but also in those of weathering and pedogenesis The volume focuses on interactions between plants animals and soils It includes aspects of climate change soil development and biology as well as above and below ground results of interdisciplinary research projects combining data from botany zoology microbiology pedology and soil ecology

The Central Amazon Floodplain Wolfgang J. Junk, 1997-06-05 Floodplains are ecosystems which are driven by periodic

inundation and oscillation between terrestrial and aquatic phases An understanding of such pulsing systems is only possible by studying both phases and linking the results into an integrated overview This book presents the results of a 15 year study of the structure and function of one of the largest tropical floodplains the Amazon River floodplain It covers qualitative aspects e g adaptations of aquatic and terrestrial organisms to the flood pulse as well as quantitative aspects e g studies of biomass primary production decomposition and nutrient cycles The authors interpret their findings and the most important data from other studies under an integrating scientific concept the Flood Pulse Concept

Landscape Disturbance and Biodiversity in Mediterranean-Type Ecosystems Philip W. Rundel, Gloria Montenegro, Fabian M. Jaksic, 2013-04-17

Human impact on natural landscapes through urbanization and agricultural expansion are becoming more and more dramatic and are the cause of serious environmental problems This volume examines the effect of landscape disturbance on plant and animal diversity in the five mediterranean climate regions of the world It begins with three introductory chapters broadly reviewing the issues of landscape degradation Further contributions describe regional land use conflicts in each of the five regions Landscape disturbance and plant diversity and landscape disturbance and animal diversity are treated in separate chapters Four contributions deal with demography and ecophysiology in vegetation succession following disturbance The volume closes with a consideration of the future addressing aspects of environmental politics

Population Viability Analysis Steven R. Beissinger, Dale R. McCullough, 2002-05-04 Many of the world's leading conservation and population biologists evaluate what has become a key tool in estimating extinction risk and evaluating potential recovery strategies population viability analysis or PVA

American Bison Dale F. Lott, 2002-09-10 American Bison combines the latest scientific information and one man's personal experience in an homage to one of the most magnificent animals to have roamed America's vast vanished grasslands Dale F Lott a distinguished behavioral ecologist who was born on the National Bison Range and has studied the buffalo for many years relates what is known about this iconic animal's life in the wild and its troubled history with humans Written with unusual grace and verve American Bison takes us on a journey into the bison's past and shares a compelling vision for its future offering along the way a valuable introduction to North American prairie ecology We become Lott's companions in the field as he acquaints us with the social life and physiology of the bison sharing stories about its impressive physical prowess and fascinating relationships Describing the entire grassland community in which the bison live he writes about the wolves pronghorn prairie dogs grizzly bears and other animals and plants detailing the interdependent relationships among these inhabitants of a lost landscape Lott also traces the long and dramatic relationship between the bison and Native Americans and gives a surprising look at the history of the hide hunts that delivered the coup de grace to the already dwindling bison population in a few short years This book gives us a peek at the rich and unique ways of life that evolved in the heart of America Lott also dismantles many of the myths we have created about these ways of life and about the bison in particular to reveal the animal itself ruminating reproducing and rutting in its

full glory His portrait of the bison ultimately becomes a plea to conserve its wildness and an eloquent meditation on the importance of the wild in our lives A Systems Analysis of the Baltic Sea F.V. Wulff,L.A. Rahm,P. Larsson,2013-03-14

During recent decades large scale effects of pollution on marine estuaries and even entire enclosed coastal seas have become apparent One of the first regions where this was observed is the Baltic Sea whereby the appearance of anoxic deep basins extensive algal blooms and elimination of top predators like eagles and seals indicated effects of both increased nutrient inputs and toxic substances This book describes the physical biochemical and ecological processes that govern inputs distribution and ecological effects of nutrients and toxic substances in the Baltic Sea Extensive reviews are supplemented by budgets and dynamic simulation models This book is highly interdisciplinary and uses a systems approach for analyzing and describing a marine ecosystem It gives an overview of the Baltic Sea but is useful for any marine scientist studying large marine ecosystems

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jan 3 2023 a net ionic equation is a chemical equation that shows only the species participating in a chemical reaction and omits the spectator ions spectator ions are ions that

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a net ionic equation is the most accurate representation of the actual chemical process that occurs writing these equations requires a familiarity with solubility rules acid base reactivity

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apr 25 2017 this is understood when you consider the two chemicals appear unchanged before and after the reaction therefore the net ionic equation is $2\text{cl aq} + 2\text{ag aq}$

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ions that remain essentially unchanged during a reaction are called spectator ions this means you can ignore them when you write the ionic equation you only need to model how the solid

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may 11 2017 in the net ionic equation any ions that do not participate in the reaction called spectator ions are excluded as a result the net ionic equation shows only the species that

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oct 2 2019 the net ionic equation is a chemical equation for a reaction that lists only those species participating in the reaction the net ionic equation is commonly used in acid base

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aug 10 2023 write the full ionic and net ionic equations for this reaction solution the elemental metals magnesium on the reactant side copper on the product side are neutral

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the first step to writing a net ionic equation is balancing the chemical equation present let s use the reaction between sodium chloride and silver nitrate as an example next we write the

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highlights learning objectives by the end of this section you will be able to derive chemical equations from narrative descriptions of chemical reactions write and balance chemical

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the net ionic equation is the chemical equation that shows only those elements compounds and ions that are directly involved in the chemical reaction notice that in writing the net ionic

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what remains when the spectator ions are removed is called the net ionic equation which represents the actual chemical change occurring between the ionic compounds cl aq

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this net ionic equation indicates that solid silver chloride may be produced from dissolved chloride and silver i ions

regardless of the source of these ions these molecular and

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write the overall chemical equation the complete ionic equation and the net ionic equation for the reaction of aqueous silver fluoride with aqueous sodium phosphate to give solid silver

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the complete ionic equation for this reaction is as follows equation 4 13 $2\text{Ag}^+ \text{aq} + 2\text{F}^- \text{aq} + 2\text{NH}_4^+ \text{aq} + \text{Cr}_2\text{O}_7^{2-} \text{aq} + \text{Ag}_2\text{Cr}_2\text{O}_7 \text{s} + 2\text{NH}_4^+ \text{aq} + 2\text{F}^- \text{aq}$ because two NH_4^+ aq

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