

AN ILLUSTRATED GUIDE TO

IOWA PRAIRIE

Plants

PAUL CHRISTIANSEN
AND MARK MÜLLER



An Illustrated Guide To Iowa Prairie Plants

Cornelia F. Mutel

An Illustrated Guide To Iowa Prairie Plants:

An Illustrated Guide to Iowa Prairie Plants Paul Christiansen, Mark Müller, 1999 This guide to the prairie plants native to Iowa provides all the information necessary for identifying and distinguishing even the most similar species. Species are described from the ground up stem leaf bud flower fruit and habitat. The time of flowering fruiting is given for central Iowa.

Restoring the Tallgrass Prairie Shirley Shirley, 1994-09 Iowa is the only state that lies entirely within the natural region of the tallgrass prairie. Early documents indicate that 95 percent of the state close to 30 million acres was covered by prairie vegetation at the time of Euro American settlement. By 1930 the prairie sod had been almost totally converted to cropland. Only about 30 000 acres of the original great green sea remained. Now in this gracefully illustrated manual Shirley Shirley has created a step by step guide to reconstructing the natural landscape of Iowa and the Upper Midwest. Chapters on planning, obtaining and selecting plants and seeds, starting seeds indoors, preparing the site, planting and maintenance set the stage for comprehensive species accounts. Shirley gives firsthand information on soil moisture, sun and pH requirements, location, size and structure, blooming time and color, and propagation, germination and harvesting for more than a hundred wildflowers and grasses. Shirley's sketches, all drawn from native plants and from seedlings that she grew herself, will be valuable for even the most experienced gardener. While other books typically feature only the flowering plant, her careful drawings show the three stages of the seedlings, the flower and the seedhead with seeds as well as the entire plant. This practical and attractive volume will help anyone dedicated to reconstructing the lost emerald growth of the historic tallgrass prairie.

A Practical Guide to Prairie Reconstruction Carl Kurtz, 2010-09-13 Intended to encourage economical and functional prairie plant communities in the Midwest, this guide provides a formula for success for all but the most extreme conditions. It outlines the procedures and problems involved in reconstructing tallgrass prairies on large fields or in small backyards. In chapters on seed selection and harvest, site selection, soil preparation, seeding, post planting, mowing, burning and growth and development, along with color photographs that are both beautiful and instructive, Kurtz presents a step by step guide to creating diverse and well established prairie plant communities.

BOOK JACKET

A Naturalist's Guide to the Great Plains Paul A. Johnsgard, 2018 This book documents nearly 500 US and Canadian locations where wildlife refuges, nature preserves and similar properties protect natural sites that lie within the North American Great Plains, from Canada's Prairie Provinces to the Texas-Mexico border. Information on site location, size, biological diversity and the presence of especially rare or interesting flora and fauna are mentioned, as well as driving directions, mailing addresses and phone numbers or internet addresses as available. US federal sites include 11 national grasslands, 13 national parks, 16 national monuments and more than 70 national wildlife refuges. State properties include nearly 100 state parks and wildlife management areas. Also included are about 60 national and provincial parks, national wildlife areas and migratory bird sanctuaries in Canada's Prairie Provinces. Many public access properties owned by counties, towns and private organizations are also listed.

are also described **The Prairie in Seed** Dave Williams,2016-04-01 The tallgrass prairie offers solutions to the many environmental challenges facing our water soils and ecosystems Planting prairie on just 10 percent of a field can effectively remove excess phosphorous and nitrogen from the remaining 90 percent Deep prairie roots and dense aboveground growth filter and hold soils keeping them from eroding into our streams and rivers Plants such as common milkweed are the key to the monarch butterfly's recovery In light of these benefits perhaps our love affair with European turf grass is slowly giving way to an appreciation of the beauty of our original native prairie As interest in these wildflowers and grasses has grown so has demand for better resources to identify the hundreds of species that make up the native prairie In *The Prairie in Seed* Dave Williams shows us how to identify wildflowers when they are out of bloom and in particular how to harvest their seeds Without the flower color and shape as guides it can be difficult to identify prairie plants Imagine trying to distinguish between a simple prairie sunflower and an ox eye sunflower with no flowers to look at In this richly illustrated guide Williams offers dormant plant identification information seed descriptions and advice on seed harvesting and cleaning for seventy three of the most common wildflowers found in the tallgrass prairie He includes photographs and descriptions of the plants in bloom and in seed to assist in finding them when you are ready to harvest Each species description explains where the seeds are located on the plant when seed ripening begins and how many seeds each species produces along with a photograph and approximate measurements of the actual seed Finally this guide provides assistance on how and when to hand harvest seeds for each species as well as some simple tips on seed cleaning An indispensable guide for anyone involved in prairie restoration or conservation this book is the perfect complement to Williams's *The Tallgrass Prairie Center Guide to Seed and Seedling Identification in the Upper Midwest* **The Midwestern Native Garden** Charlotte Adelman,Bernard L. Schwartz,2011-09-21 Midwestern gardeners and landscapers are becoming increasingly attracted to noninvasive regional native wildflowers and plants over popular nonnative species The Midwestern Native Garden offers viable alternatives to both amateurs and professionals whether they are considering adding a few native plants or intending to go native all the way Native plants improve air and water quality reduce use of pesticides and provide vital food and reproductive sites to birds and butterflies that nonnative plants cannot offer helping bring back a healthy ecosystem The authors provide a comprehensive selection of native alternatives that look similar or even identical to a range of nonnative ornamentals These are native plants that are suitable for all garden styles bloom during the same season and have the same cultivation requirements as their nonnative counterparts Plant entries are accompanied by nature notes setting out the specific birds and butterflies the native plants attract The Midwestern Native Garden will be a welcome guide to gardeners whose styles range from formal to naturalistic but who want to create an authentic sense of place with regional natives The beauty hardiness and easy maintenance of native Midwestern plants will soon make them the new favorites **The Iowa Lakeside Laboratory** Michael J. Lannoo,2012-11-15 Imagine a place dedicated to the long term study of nature in nature a permanent

biological field station a teaching and research laboratory that promotes complete immersion in the natural world Lakeside Laboratory founded on the shore of Lake Okoboji in northwestern Iowa in 1909 is just such a place In this remarkable and insightful book Michael Lannoo sets the story of Lakeside Lab within the larger story of the primacy of fieldwork the emergence of conservation biology and the ability of field stations to address such growing problems as pollution disease habitat loss invasive species and climate change At the intersection of major ecosystems with distinct plant and animal communities and surrounded by what ironically may be the most intensely cultivated landscape on earth Lakeside has a long history of rubber boot biologists saturated in the spirit that grounds the new discipline of conservation biology and Lannoo brings this history to life with his descriptions of the people and ideas that shaped it Lakeside s continuing commitment to bringing the laboratory to the field rather than bringing the field to the lab has supported a focus on mammalogy ornithology herpetology ichthyology invertebrate biology parasitology limnology and algology subjects rarely taught now on university campuses but crucial to the planet s health Today s huge array of environmental problems can best be solved by people who have learned about nature within nature at a place with a long history of research and observation people who thoroughly understand and appreciate nature s cogs and wheels Lakeside Lab and biological research stations like it have never been more relevant to science and to society at large than they are today Michael Lannoo convinces us that while Lakeside s past is commendable its future grounded in ecological principles will help shape a more sustainable society

Prairie Plants of the University of Wisconsin--Madison Arboretum Theodore S. Cochrane,Kandis Elliot,Claudia S. Lipke,2006 A pioneer and leader in the preservation and restoration of native Midwest prairies since the 1930s the University of Wisconsin

Madison Arboretum has a stellar collection of prairie plant species including horsetails ferns rushes sedges grasses shrubs vines and wildflowers This guide illustrates and describes more than 360 native and introduced species that grow and bloom on the Arboretum prairies and also briefly discusses or mentions many additional species infraspecific taxa and hybrids Its intent is to increase awareness and respect for remaining small prairie remnants motivate readers to work for prairie preservation and restoration and encourage the planting of native species in yards and gardens Botanist and taxonomist Theodore S Cochrane has written the text to engage a variety of readers prairie enthusiasts gardeners amateur botanists younger students learning about plants and college students and professionals Nomenclature follows in part the new APG classification system Richly illustrated with detailed color photographs by Claudia S Lipke and botanical illustrations and maps by Kandis Elliot the guide provides a beautiful and informative sample of the flora of the Arboretum and of the southern Wisconsin prairie landscape Many of the plants of course are also found throughout the upper Midwestern United States and in adjacent southern Canada

Technical Report Elsberry Plant Materials Center (U.S.),2006

The Emerald Horizon Cornelia F. Mutel,2008-03 In The Emerald Horizon Cornelia Mutel combines lyrical writing with meticulous scientific research to portray the environmental past present and future of Iowa In doing so she ties all of Iowa s natural features into

one comprehensive whole Since so much of the tallgrass state has been transformed into an agricultural landscape Mutel focuses on understanding today's natural environment by understanding yesterday's changes After summarizing the geological archaeological and ecological features that shaped Iowa's modern landscape she recreates the once wild native communities that existed prior to Euroamerican settlement Next she examines the dramatic changes that overtook native plant and animal communities as Iowa's prairies woodlands and wetlands were transformed Finally she presents realistic techniques for restoring native species and ecological processes as well as a broad variety of ways in which Iowans can reconnect with the natural world Throughout in addition to the many illustrations commissioned for this book she offers careful scientific exposition a strong sense of respect for the land and encouragement to protect the future by learning from the past The emerald prairie that gleamed and shone to the horizon's edge as botanist Thomas Macbride described it in 1895 has vanished Cornelia Mutel's passionate dedication to restoring this damaged landscape and by extension the transformed landscape of the entire Corn Belt invigorates her blend of natural history and human history Believing that citizens who are knowledgeable about native species communities and ecological processes will better care for them she gives us hope and sound suggestions for the future

The Journal of the Iowa Academy of Science ,2000 **A Prairie's Not Scary** Paul

A. Johnsgard,2012-04-01 Twenty poems and 23 drawings illustrate the integrated habitat and denizens of the North American prairies mammals birds insects and plants Probably only 1 3 percent of Nebraska's original tallgrass prairie still exists There are very few remaining tallgrass prairies in Nebraska as large as Spring Creek Prairie They represent important repositories for our natural heritage of native plants and animals It is not uncommon for tallgrass prairies to have 250 300 species of plants present and several hundred species of insects from publisher's description **Natural Landscaping** John Diekelmann,Robert M. Schuster,2002 In response to demand from landscape architects and home gardeners Natural Landscaping returns to print in an updated and expanded second edition It is unique in its focus on plant communities it approaches landscape design as the establishment of natural ecosystems rather than mere planting of specimens Emphasizing the natural landscapes of the northeastern United States and eastern Canada this book o reviews landscaping principles and techniques o introduces native plant species for grasslands forests edge areas and small wetlands o illustrates how to evaluate a site and plan for visual effect and maintenance o presents the issues involved in restoring bogs ponds and other wetlands o offers practical advice on reducing chemical use while still combating invasive plants o addresses social legal design and planting problems often encountered on residential sites o discusses natural landscaping for public parklands civic buildings school grounds and corporate properties **The Butterflies of Iowa** Dennis W. Schlicht,John C. Downey,Jeffrey C. Nekola,2007-05 This beautiful and comprehensive guide many years in the making is a manual for identifying the butterflies of Iowa as well as 90 percent of the butterflies in the Plains states It begins by providing information on the natural communities of Iowa paying special attention to butterfly habitat and distribution Next come

chapters on the history of lepidopteran research in Iowa and on creating butterfly gardens followed by an intriguing series of questions and issues relevant to the study of butterflies in the state. The second part contains accounts organized by family for the 118 species known to occur in Iowa. Each account includes the common and scientific names for each species, its Opler and Warren number, its status in Iowa, adult flight times and number of broods per season, distinguishing features, distribution and habitat and natural history information such as behavior and food plant preferences. As a special feature of each account the authors have included questions that illuminate the research and conservation challenges for each species. In the third section the illustrations grouped for easier comparison among species include color photographs of all the adult forms that occur in Iowa. Male and female as well as top and bottom views are shown for most species. The distribution maps indicate in which of Iowa's ninety nine counties specimens have been collected. Flight times for each species are shown by marking the date of collection for each verified specimen on a yearly calendar. The book ends with a checklist, collection information specific to the photographs, a glossary, references and an index. The authors' meticulous attention to detail, stimulating questions for students and researchers, concern for habitat preservation and joyful appreciation of the natural world make it a valuable and inspiring volume.

Wildflowers and Grasses of Kansas Michael John Haddock, 2005 Perfect for backpack or glove compartment. Wildflowers and Grasses of Kansas offers a wealth of quick access information graced with color that leaps off the page making plant identification a joy rather than a chore.

Transactions of the Illinois State Academy of Science Illinois State Academy of Science, 2000

The Englishman's Illustrated Guide Book to the United States and Canada, Etc Englishman, Montgomery Gibbs, 1874

The Englishman's illustrated guide book to the United States and Canada [by M. Gibbs]. Montgomery Gibbs, 1874

The Englishman's illustrated guide book to the United States and Canada Englishman, 1874

Great Lakes and Midwest Catalog Partners Book Distributing, 2007

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An Illustrated Guide To Iowa Prairie Plants Introduction

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