

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

---

The Prairie Naturalist

Great Plains Natural Science Society

---

12-2017

## The Prairie Naturalist: The Journal of the Great Plains Natural Science Society

Follow this and additional works at: <https://digitalcommons.unl.edu/tpn>



Part of the [Biodiversity Commons](#), [Botany Commons](#), [Ecology and Evolutionary Biology Commons](#), [Natural Resources and Conservation Commons](#), [Systems Biology Commons](#), and the [Weed Science Commons](#)

---

This Article is brought to you for free and open access by the Great Plains Natural Science Society at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in The Prairie Naturalist by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.



# The Prairie Naturalist

Volume 49

No. 2

The Journal of the Great Plains Natural Science Society



# The Prairie Naturalist

Established in 1969

## **EDITOR-IN-CHIEF**

Christopher N. Jacques, Department of Biological Sciences, Western Illinois University

## **ACTING ASSISTANT EDITORS**

Jonathan A. Jenks, Department of Natural Resource Management, South Dakota State University

Brandi L. Felts, Department of Natural Resource Management, South Dakota State University

## **ASSOCIATE EDITORS**

Brian G. Blackwell, South Dakota Department of Game, Fish and Parks

Jack L. Butler, U.S. Forest Service, Rocky Mountain Research Station

M. Colter Chitwood, Department of Fisheries and Wildlife Sciences, University of Missouri

Sue Fairbanks, Department of Natural Resource Ecology and Management, Oklahoma State University

Dan Fogel, Arts and Science Division, Southeast Community College

Keith Geluso, Department of Biology, University of Nebraska at Kearney

Heath M. Hagy, United States Fish and Wildlife Service

Lawrence D. Igl, Northern Prairie Wildlife Research Center, U.S. Geological Survey

Seán E. Jenkins, Department of Biological Sciences, Western Illinois University

James T. Lamer, Department of Biological Sciences, Western Illinois University

Mark A. Rumble, U.S. Forest Service, Rocky Mountain Research Station

Mark Vrtiska, Nebraska Game and Parks Commission

Melissa R. Wuellner, Department of Natural Resource Management, South Dakota State University

## **BOOK REVIEW EDITOR**

Lawrence D. Igl, Northern Prairie Wildlife Research Center, U.S. Geological Survey

## **OUTREACH COORDINATOR**

Brandi L. Felts, Department of Natural Resource Management, South Dakota State University

**THE PRAIRIE NATURALIST** is published by The Great Plains Natural Science Society, Box 2140B, NPB 138, Department of Natural Resource Management, South Dakota State University, Brookings, SD 57007. Publishing services provided by Minuteman Press, Sioux Falls, SD. The annual membership rate for The Great Plains Natural Science Society is \$15 for students, \$25 for individuals, \$50 for libraries, and \$250 for lifetime membership, and includes a subscription to *The Prairie Naturalist*. Address all membership and business correspondence to the Assistant Editor, Box 2140B, NPB 138, Department of Natural Resource Management, South Dakota State University, Brookings, SD 57007. Submit manuscripts via email to the Editor-in-Chief using *The Prairie Naturalist* website, <http://www.sdstate.edu/wfs/GPNSS/TPN/index.cfm>.

# The Prairie Naturalist

Vol. 49, Issue 2, December 2017

## TABLE OF CONTENTS

- 45 EDITOR'S NOTE
- RESEARCH ARTICLES**
- 48 Avian Diversity, Abundance, and Nest Success among Managed Prairies and Agricultural Plots in Oklahoma and Texas  
*Phillip J. Leonard, Douglas R. Wood, and Wayne E. Meyer*
- 57 Severe Drought Impacts Female Pheasant Physiology in Southwest Nebraska  
*Jessica A. Laskowski, Gwen C. Bachman, and Joseph J. Fontaine*
- 66 Field Discrimination of Prairie Deer Mice and White-footed Mice using Morphological Characteristics  
*Jacob L. Berl, Kelton M. Verble, Elizabeth A. Flaherty, and Robert K. Swihart*
- NOTES**
- 72 Range Extension of the Virginia Opossum (*Didelphis virginiana*) in North Dakota  
*Lisa L. Walsh*
- 76 Prairie Falcon Depredation Attempts on a Greater Prairie-Chicken Lek in South-Central Nebraska  
*Andrew J. Caven, Joshua D. Wiese, and William R. Wallauer*
- 79 Unique Nesting Behavior by Trumpeter Swans (*Cygnus buccinator*)  
*Heather M. Johnson, Michael Forsberg, Letitia Reichart, and Mark P. Vrtiska*
- BOOK REVIEWS**
- 81 Raptors of Mexico and Central America  
*William S. Clark and N. John Schmitt*
- 83 A Swift Guide to Butterflies of North America, second edition  
*Jeffrey Glassberg*
- 85 One More Warbler: A Life with Birds  
*Victor Emanuel with S. Kirk Walsh*
- 87 Energy Sprawl Solutions  
*Joseph M. Kiesecker and David E. Naugle*







# The Great Plains Natural Science Society

The Great Plains Natural Science Society, formerly the North Dakota Natural Science Society, was founded in 1967 and seeks to promote interest in and understanding of natural history in the Great Plains, to encourage the conservation of natural resources, and to provide communication among individuals, institutions, and organizations of like interests. The GPNSS actively promotes the study of natural history of the Great Plains region, including geology, plants, birds, mammals, fish, insects, and other forms of life. Together with local, state, and national conservation organizations, the GPNSS fosters natural resource conservation and preservation of outstanding natural areas. The GPNSS publishes *The Prairie Naturalist*, a widely read, peer-reviewed journal which deals with the natural history and environment of the Great Plains region.

The GPNSS is currently composed of a diverse membership, many of whom are professional scientist. Society members have strong interests in sustainable management of Great Plains natural resources and their habitats. Natural history and ecology of the Great Plains is the primary focus and interest of the GPNSS, thus, the primary interests and goals of the Society seeks to promote increased scientific knowledge of the interactions of all Great Plains organisms with their natural environments, enhance professional stewardship of Great Plains natural resources and their habitats, and encourage use of applied research for informing Great Plains natural resource policy decisions.

The GPNSS hosts annual meetings and serves host to symposiums covering a broad spectrum of topics. Located within the Department of Natural Resource Management at South Dakota State University, the GPNSS takes great pride in working with students, staff, and faculty to foster a greater understanding of the natural history and ecology of Northern Great Plains organisms and their biota.

First published in 1969 by the University of North Dakota, *The Prairie Naturalist* has been published by South Dakota State University since 2010 and fills an important role as the avenue of communication of research on the North American grasslands and their biota. Research topics include articles investigating Great Plains community and landscape ecologies, species-specific population dynamics, mammalogy, ornithology, invertebrate zoology, herpetology, ichthyology, botany, animal behavior, infectious diseases, and biostatistics. This journal offers timely technical information for researchers, educators, students, and the interested public. Published quarterly, *The Prairie Naturalist* reaches subscribers throughout the United States and Canada, as well as libraries in Europe and Asia. A portion of each volume is devoted to shorter and less comprehensive communications (notes) and book reviews. Manuscripts containing original material not submitted elsewhere are considered for publication; all are reviewed by specialists in relevant fields.

Cover Photograph by  
Ryan Askren

