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GREAT PLAINS RESEARCH

A JOURNAL OF NATURAL AND SOCIAL SCIENCES

VOLUME 22, NUMBER 1 SPRING 2012



CENTER FOR GREAT PLAINS STUDIES
UNIVERSITY OF NEBRASKA-LINCOLN

CENTER FOR GREAT PLAINS STUDIES

Director: Richard Edwards
Professor, Economics
University of Nebraska–Lincoln

THE CENTER FOR GREAT PLAINS STUDIES was established in 1976 by the University of Nebraska Board of Regents to promote a greater understanding of the people, culture, history, and environment of the Great Plains through a variety of teaching, research, and outreach programs. Under the administration of the College of Arts and Sciences at the University of Nebraska–Lincoln, the Center encompasses nine divisions: the Great Plains Art Museum, three academic journals (*Great Plains Quarterly*, *Great Plains Research*, and *Plains Song Review*), Plains Humanities Alliance, undergraduate and graduate programs, editing projects, research support, outreach programs, interdisciplinary symposia, and Fellows and Associate Fellows.

GREAT PLAINS RESEARCH

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Cover image: Late spring prescribed burn on Nine-Mile Prairie near Lincoln, Nebraska. Photograph by James Stubbendieck, retired Director of the Center for Great Plains Studies and Emeritus Professor of Grassland Ecology, University of Nebraska–Lincoln. See the article by Rhet L. Mohler and Douglas G. Goodin on page 15 in this issue for research on the mapping of burned areas in the Flint Hills of Kansas and Oklahoma.

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GREAT PLAINS RESEARCH is a peer-reviewed, biannual, multidisciplinary science journal, which publishes original research and scholarly reviews of important advances in the natural and social sciences with relevance to the Great Plains region and with special emphases on environmental, economic, and social issues. It includes reviews of books.

Articles include:

- **original research findings**, such as have been published in *GPR* since 1991;
- **synopses** of the “state of the science” on topics relevant to the Great Plains;
- **overviews** of critical environmental, economic, and social issues for the plains;
- **reviews** of knowledge on important questions and their regional application; and
- **syntheses and cross-disciplinary analyses** relevant to the Great Plains.

Great Plains Research is indexed or abstracted in *America: History and Life*, *BIOSIS Previews*, *Biological Abstracts*, *Environment Abstracts*, *Historical Abstracts*, *Geographical Abstracts* and *GEOBASE*, *Meteorological and Geostrophysical Abstracts*, and *CSA Sociological Abstracts, Inc.*

The editor encourages those submissions in particular that report general findings in the sciences relevant to this vast region. Articles should include thoughtful reviews of critical scientific findings and issues relevant to the Great Plains, whether the research was done in the Great Plains or not. The key to acceptance will be how well the findings are related to the region, and how well the science is communicated to other scientists outside the specific discipline, in the style of *Scientific American*, for example. The Board of Governors’ Publication Committee will select annually the best paper in natural sciences and the best paper in social sciences. The author/s of the winning papers will be presented cash prizes for the **Charles E. Bessey Award** (natural sciences) or the **Leslie Hewes Award** (social sciences).

Scientists doing interesting work with important implications for this region are invited to synthesize their significant research results and present them to our readers. The overall goals are to develop *Great Plains Research* as a centralized outlet for science of regional importance, to communicate important scientific findings to as wide an educated audience as possible, and to help keep scientists, interested citizens, and leaders of this region up-to-date on scientific progress relevant to the Great Plains.

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CONFERENCES

March 28–30, 2012

The University of Nebraska's Center for Great Plains Studies presents its 38th Interdisciplinary Symposium in collaboration with Homestead National Monument of America, National Park Service. "1862–2012: The Making of the Great Plains" will be held at the University of Nebraska–Lincoln.

In 1862, Congress passed four landmark pieces of legislation: the Homestead Act, the Morrill Act, the Pacific Railroad Act, and the act to establish the U.S. Department of Agriculture; it was also the year of the fateful Dakota Conflict. These acts and events fundamentally shaped the Great Plains. This symposium will examine their consequences for the society, culture, and commerce of the Great Plains.

The public is encouraged to register for the conference. Contact the Center by e-mail: cgps@unl.edu; or web site: www.unl.edu/plains.

March 30–31, 2012

The 144th Annual Meeting of the Kansas Academy of Science will be held at Wichita State University. Web site: www.kansasacademyscience.org/. The Keynote Speaker is Dr. Andrew H. Knoll, Fisher Professor of Natural History & Professor of Earth and Planetary Sciences, Harvard University Botanical Museum.

April 20, 2012

The Annual Meeting of the Nebraska Academy of Sciences and the Nebraska Junior Academy of Sciences State Science Meeting will be held at Nebraska Wesleyan University in Lincoln, Nebraska. Web site: www.neacadsci.org.

May 9–11, 2012

The 64th Annual Meeting of the Rocky Mountain Section of the Geological Society of America will be in Albuquerque, NM. *Rio Geo Fiesta!* Web site: www.geosociety.org/Sections/rm/2012mtg/.

June 25–28, 2012

The Seventh International Conference on Interdisciplinary Social Sciences will be held at Universidad Abat Oliba CEU in Barcelona, Spain. More information may be found at www.SocialSciencesConference.com.

July 26–29, 2012

The 75th Annual Meeting of the Rural Sociological Society will be held at the Palmer House Hotel in Chicago.

By this time pretty much everybody knows that 2012 is the 75th Anniversary of the founding of the Rural Sociological Society and that our meetings will be held in the same hotel where the RSS was launched in 1937. What you may not realize is that 2012 is also the 150th Anniversary of the founding of the U.S. Department of Agriculture, the federal agency that has primary responsibility for the quality of life in rural America. This confluence should encourage us to use the annual meetings as a time of reflection not only of the path traveled but the road ahead. What policies—public and otherwise—have contributed to the patchwork of uneven prosperity we find at home and abroad and how can we do better?

The theme for this meeting is "Local Solutions to Inequality." For more information, see the web site: www.ruralsociology.org.

August 5–10, 2012

The 97th Annual Meeting of the Ecological Society of America will be held in Portland, OR. This meeting's theme is "Life on Earth: Preserving, Utilizing, and Sustaining our Ecosystems." Web site: www.esa.org/portland/index.php.

November 4–7, 2012

The Annual Meeting of the Geological Society of America will be in Charlotte, NC. The theme is "Geosciences: Investing in the Future." Web site: www.geosociety.org/meetings/.

November 11–14, 2012

The 60th Annual Meeting of the Entomological Society of America will be held in Knoxville, TN. This year's theme is "A Global Society for a Global Science." Covering all aspects of the science, the section & member symposia will provide insight into many of the world's most vexing problems that affect you and the global community, and will help you with your research. Web site: www.entsoc.org/entomology2012.

November 14–18, 2012

The 111th Annual Meeting of the American Anthropological Association will be held in San Francisco, CA. The theme is “Borders and Crossings.” San Francisco offers the perfect venue for thinking about border crossings across time, space, embodied differences, language and culture. If we have learned anything in the last decade with the increasing globalization of social movements, the election of the first black US president, and the legalization of gay marriage in five states, it is that borders—taboos, injunctions, stigmas and resource flows—are not fixed, but open to renegotiation. It is in that spirit that we dedicate this meeting to recognizing our discipline’s borders and those borders’ permeability to relevant transgressions. Web site: www.aaanet.org/meetings/.

Charles E. Bessey Award

Great Plains Research is pleased to announce the winners of the Charles E. Bessey Award for the best paper in natural sciences published during the volume year of 2011 are Alexander J. Smart, Matthew J. Nelson, Peter J. Bauman, and Gary E. Larson for their paper, “Effects of Herbicides and Grazing on Floristic Quality of Native Tallgrass Pastures in Eastern South Dakota and Southwestern Minnesota,” *Great Plains Research* 21 (Fall 2011):181–89. The annual award includes a cash prize of \$250.

Smart is a professor, Nelson a graduate student, and Larson a professor, all in the Department of Natural Resource Management at South Dakota State University. Bauman is with the Nature Conservancy in Clear Lake, SD.

Leslie Hewes Award

The winners of the Leslie Hewes Award for the best paper in social sciences published in *Great Plains Research* during the volume year 2011 are Peter J. Longo and Joan M. Blauwkamp for their paper, “Workplace

Religious Accommodation for Muslims and the Promise of State Constitutionalism,” *Great Plains Research* 21 (Spring 2011):3–15. This annual award also includes a cash prize of \$250.

Longo is professor of political science and Blauwkamp is associate professor of political science, both at the University of Nebraska at Kearney.

Atlas wins awards

The *Atlas of the Great Plains* by Stephen J. Lavin, Fred M. Shelley, and J. Clark Archer, Foreword by David J. Wishart, Introduction by John C. Hudson, published by the University of Nebraska Press in 2011, has received two awards: the 2011 *Booklist* Editor’s Choice, reference category; and one of three best reference works in the Travel & Geography category by the *Library Journal Reviews* (February 28, 2012).

With more than 300 maps and diagrams, this beautifully crafted atlas complements the earlier, award-winning *Encyclopedia of the Great Plains* (Univ. of Nebraska). As defined here, the region stretches across 15 states and three provinces from Alberta to Texas, an area of 973,500 square miles. The atlas includes both reference and thematic maps. The latter depict the areas’ environment, history, employment, politics, religion, recreation, and other social indicators. Where else could you have successive maps on symphony orchestras, rodeos, and powwows? LJ 11/1/11

The Center for Great Plains Studies was one of the supporters for the publication. J. Clark Archer is a fellow of the Center and past editor of *Great Plains Research*. The late Stephen J. Lavin was also a fellow of the Center. David J. Wishart is a fellow of the Center and editor of the *Encyclopedia of the Great Plains*.

INSTRUCTIONS TO AUTHORS

SUBMISSIONS

- All manuscripts must be concise: no more than 5,000 words excluding abstract and reference sections.
- Tables and figures (including maps) must be carefully composed to achieve the author's goal of clarity of presentation.
- There is no limit for either figures or tables accompanying the manuscript. Authors must, however, be judicious in their use of figures and tables.
- All submissions must be double-spaced, and include abstract, key words, text, and references, and printed on 8.5 by 11-inch white paper with 1-inch margins. Use Times New Roman font.
- Informational footnotes are not accepted.
- Authors must prepare a separate title page with their name(s) and affiliation(s), and any acknowledgments, which will not be sent to reviewers. The title of the paper must be repeated directly above the abstract.
- Authors must submit three copies of their manuscripts and a CD-R of all figures and tables.
- If the manuscript is accepted for publication, author(s) will be asked to send the final document as an e-mail attachment or on a CD-R in Word or Rich Text Format/.rtf file.

REVIEW PROCESS. ALL MANUSCRIPTS ARE GIVEN DOUBLE-BLIND REVIEW. Authors must prepare a separate title page with their name(s) and affiliation(s), and any acknowledgments, which will not be sent to reviewers. The title of the paper must be repeated directly above the abstract. Authors should avoid self-identification in the text. When at least two external reviewers with expertise in the topic have submitted their evaluations, the manuscript is reviewed by the Editor who makes the final decision to publish.

Send your submissions to
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E-mail: gpr@unl.edu



Article Style. Authors should write simply and in the first person, communicate with a broad interdisciplinary audience in jargon-free language, and avoid sexist, racist, or otherwise biased language or intent.

Title. Article titles should not exceed 10 words (or 82 characters) and should not have subtitles.

(1) **Text Headings** are left-justified, all caps, and bold: INTRODUCTION, METHODS, RESULTS, DISCUSSION, CONCLUSIONS, ACKNOWLEDGMENTS, REFERENCES. (2) **Text Subheadings** are left-justified, title caps, and bold. (3) **Text Lower Subheadings** are left-justified, title caps, bold, no tab, and lead into the paragraph.

Abstract. A short abstract of fewer than 200 words should precede the main text. The abstract should identify the problem addressed in the paper, indicate the methodology, and summarize the results. Authors should prepare an abstract that will be interesting to and understood by nonspecialists in the field. Five to eight **key words** should accompany the abstract.

Illustrations. All illustrations including maps should be referenced parenthetically by arabic numbers in the text. For example, "Rainfall increases with elevation (Fig. 1)." Captions for figures should be sent as a separate file and not included or embedded into the figure itself. All illustrations should be sized for 1-column width (3.25") or 2-column width (6.625"), be no more than 9.0" in height, and be sent as separate files as "grayscale" **tiff** or **eps** graphic files at 350 dpi, and "line" illustrations should be 1200 dpi. High quality **pdf** files are acceptable.

DO NOT send figures embedded into your article, as Word figures, or as PowerPoint® graphics. Send illustrations/figures as separate files on a CD-R. Use a sans serif font such as Arial.

Maps. A bar scale in kilometers and a north arrow must be included on all maps. Enlarged details of maps should be to scale. All geographic places mentioned in the text should be shown on a map. Use a sans serif font such as Arial.

Measurements. All measurements should be given in **SI units** (expanded metric system).

Tables. Tables should be presented on separate sheets apart from the text and printed as quality images. They should be formatted to fit the standard text area of the journal [1-column width (3.25") or 2-column width (6.625") and no more than 9.0" in height], since they may be treated as camera-ready illustrations at the time of publication. Send tables separately as Word files with article file on CD-R. Use Times New Roman font.

Reference Style. *Great Plains Research* uses *The Chicago Manual of Style*, 16th edition, as its reference guide. The journal uses author-date citations in chronological order in the text [for example: (Smith et al. 1990; Templer 1992; Jones in press)] and a complete reference section that gives author, year, title, source, and page references for journal or newspaper articles. **Include page numbers for quotations** [for example: (Templer 1992, 45)].

- For a journal article:
Murkin, H.R. 1998. Freshwater functions and values of prairie wetlands. *Great Plains Research* 8: 3–15.
- For a book:
Blouet, B.W., and F.C. Luebke, eds. 1979. *The Great Plains: Environment and Culture*. University of Nebraska Press, Lincoln, NE.
- For an article in a book or conference volume:
Wedel, W.R. 1994. Coronado and Quivira. In *Spain and the Plains*, ed. R.H. Vigil, F.W. Kaye, and J.R. Wunder, 45–66. University Press of Colorado, Niwot, CO.



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