

# Samuel D. Fuhlendorf

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## Employment

<i>Regents Professor</i>	Oklahoma State University, 7/13-Present
<i>Professor</i>	Oklahoma State University, 7/06-Present
<i>Associate Professor</i>	Oklahoma State University. 7/02- 7/06
<i>Assistant Professor</i>	Oklahoma State University. 7/97- 7/02
<i>Post-Doctoral Research Associate</i>	Texas A&M University. 9/96 – 7/97.
<i>Assistant Lecturer</i>	Texas A&M University. 5/95- 8/95 & 5/96- 8/96.
<i>Research/Teaching Assistant</i>	Texas A&M University. 1/90 - 5/96
<i>Chemist</i>	Texas Industries, Midlothian, Texas. 5/88 - 1/90.

## Education

Ph.D. Rangeland Ecology and Management, Texas A&M University, August 1996  
M.S. Rangeland Ecology and Management, Texas A&M University, August 1992  
B.S. Agricultural Sciences, Angelo State University, May 1987

## Honors and Affiliations

Groendyke Chair in Wildlife Conservation 2014- present  
Regents Professor, 2013  
Fellow of the DiVinci Institute of Creativity, 2013.  
Sarkey's Distinguished Professor, DASNR-OSU, 2008-2014  
Regents Distinguished Research Award, 2012  
Associate Editor- *Fire Ecology* 2015- present.  
Member of The Lesser Prairie-Chicken Species Status Assessment Science Team for the USFW Service. March 2015 – Present.  
USDA-NIFA-AFRI Managed Agro-ecosystems and Thresholds. 2011, Panel Manager  
USDA-NIFA-AFRI- Climate Change Grant Program. 2012. Panelist  
Associate Editor of *Fire Ecology*, 2014-present.  
IUCN Bison Specialist Group, member. 2012-present.  
Outstanding Achievement Award- Society for Range Management 2010  
USDA-NRI Invasive Species Program Panelists 2007  
Associate Editor for Invited Features for *Rangeland Ecology and Management*, 2008  
Award for Best Scientific Publication- 2007, Society for Range Management (TX Section)  
Associate Editor for *Rangeland Ecology and Management*, 2004-2007  
Award for Best Wildlife Publication- 2006, The Wildlife Society  
Team Coordinator, Ecosystem Management, Conservation and Restoration Initiative Team- OSU/DASNR 2006- 2013  
Award for Best Scientific Publication- 2004, Society for Range Management (TX Section)  
Ecological Society of America, Rangeland Section, Chair 2003-2004  
Ecological Society of America, Rangeland Section, Chair-elect 2002-2003  
USDA-NRI Managed Ecosystems Program Panelists 2003  
USDA-NRI Managed Ecosystems Program Panelists 2004  
James A. Whatley Award for Meritorious Research in Agricultural Science, Division of Agricultural Sciences and Natural Resources, Oklahoma State University, 2001  
Outstanding Faculty Research Award, OSU, Plant and Soil Science Department, 1999  
Outstanding Young Range Professional, Society for Range Management, 1999  
Phoenix Award for Outstanding Graduate Faculty 1999, OSU-GSA, Finalist

University of Oklahoma, Dept. of Geography, Special Member of Graduate College, 2003  
 Texas Tech University, Range and Wildlife Department, Adjunct Professor 1999  
 Recognized as an Effective Teacher/Advisor in the *1999 OSU Student Satisfaction and Institutional Priorities Survey*  
 Range Science Education Council, Member 2000- 2007  
 Range Science Education Council, Secretary 2002  
 Range Science Education Council, V. President 2003  
 Range Science Education Council, President 2004

### **Experience - Teaching**

- 2013- present Regents Professor, Oklahoma State University, Natural Resource Ecology and Management. Courses Taught  
*Applied Ecology & Conservation*, (NREM 3013, Core course required for all NREM students-First taught in Fall 2014)  
*Applied Landscape Ecology* (NREM 5954, Graduate)  
*Ecology of Fire Dependent* (NREM Graduate)
- 2006-2012 Professor, Oklahoma State University, Natural Resource Ecology and Management  
 Courses taught:  
*Ecology of Natural Resources* (NREM 2913; Sophomore, Approximately 400 student credit hours)  
*Rangeland Resource Planning* (NREM 4613, Seniors)  
*Applied Landscape Ecology* (NREM 5954, Graduate)  
*Ecology of Fire Dependent* (NREM Graduate)
- 2002- 2006 Associate Professor Oklahoma State University, Department of Plant and Soil Sciences  
 Courses taught:  
*Graduate Seminar* (RLEM 5020; Graduate Student)  
*Ecology of Natural Resources* (RLEM 2913; Sophomore)  
*Ecology of Rangeland Habitats and Landscapes* (RLEM 5954, Graduate)  
*Special Topics- Ecology of Rangelands* (RLEM 5070; Graduate students)
- 1997-2002 Assistant Professor. Oklahoma State University, Department of Plant and Soil Sciences  
 Courses taught:  
*Landscape and Community Ecology of Rangelands* (RLEM 4934; Sr)  
*Rangeland Monitoring* (RLEM 4961; Sr)  
*Plant Succession on Rangelands* (RLEM 5760; Graduate)  
*Graduate Seminar* (AGRON 5020; Graduate)  
*Ecology of Natural Resources* (RLEM 2913; Sophomore)  
*Ecology of Rangeland Habitats and Landscapes* (RLEM 4954, Senior)  
*Ecology of Rangeland Habitats and Landscapes* (RLEM 5954, Grad.)  
*Ecological System Analysis* RLEM 5760
- 1995-1996 Assistant Lecturer (summers only). Texas A&M University, Department of Rangeland Ecology and Management  
*Fundamentals of Ecology*
- 1992-1996 Teaching Assistant. Texas A&M University, Department of Rangeland Ecology and Management  
*Principles of Range Management*  
*Fundamentals of Ecology*

### **Undergraduate Advising at OSU**

1. Served as advisor for undergraduate students pursuing a degree in Plant and Soil Sciences with an option in Rangeland Ecology and Management since 1997. Advised from 8-25 undergraduates (all of the range students) until 2003.

2. Served as faculty advisor for the Oklahoma State University, Society for Range Management Undergraduate club from 1997 to 2004.

### *Graduate Student Advising at OSU*

#### *M.S. Committee Chair*

Alan Woodward, 1998 to 2001 (Rangeland Ecology and Management)  
Wade Harrell, 1998 to 2000 (Rangeland Ecology and Management)  
Kimberly Suedkamp 1998- 2000 (Zoology Co-Chair, w/Fred Guthery)  
Timothy Tunnell 1999 to 2002 (Rangeland Ecology and Management)  
Steven Smith, 2001- 2003 (Rangeland Ecology and Management Co-chair w/Fred Guthery)  
Hunter Anderson, 2002- 2005. (Environmental Sciences)  
Luke Bell, 2002- 2005 (Rangeland Ecology and Management)  
Dirac Twidwell- 2004-2007 (Rangeland Ecology and Management)  
Megan McLachlin- 2005- 2007(Rangeland Ecology and Management)  
Brady Allred 2007- 2008 (Natural Resource Ecology and Management)  
Angie Reid 2007-2009 (Natural Resource Ecology and Management)  
Ilana Bloom-Cornelius 2009-2011 (Natural Resource Ecology and Management)  
Emily Hiatt 2009-2014 (Natural Resource Ecology and Management)  
Brian Truitt 2011-2015 (Natural Resource Ecology and Management)  
Britt Smith 2012- 2014 (Natural Resource Ecology and Management)  
Shelby Fraser 2014- present (Wildlife Ecology)  
Seth Coffey 2015- present (Fire Ecology & Management)  
Rachel Beyke 2015- present (Wildlife Ecology)  
Daniel Harrington 2015- present (Wildlife Ecology)  
Cameron Duquette 2015- present. (Wildlife Ecology)

#### *Ph.D. Dissertation Chair*

Darrell Townsend, 1999 to 2004 (Rangeland Ecology and Management)  
Wade Harrell, 2000 to 2004 (Rangeland Ecology and Management)  
Alexander Rybak, 2000 to present (Rangeland Ecology & Mgt) Presidential Fellowship  
Chad Cummings, 2003- 2007 (Rangeland Ecology and Management)  
Ray Moranz, 2004- 2009 (Rangeland Ecology and Management)  
Steve Winter, 2006-2010 (Rangeland Ecology and Management)  
Brady Allred, 2008- 2012 (Rangeland Ecology and Management)  
Sonja Leverkus 2009-present (Natural Resource Ecology and Management)  
Ashley Unger 2012-present (Natural Resource Ecology and Management)  
Kate Golden 2013- Present (Natural Resource Ecology and Management)  
Heath Starns 2014-Present (Natural Resource Ecology and Management)

#### *Researchers and Post- Doctoral Associates Mentored*

Chad Cummings, 2003-2007  
Ryan Limb, 2007-2010  
Steve Winter, 2009-2011  
Brady Allred, 2009- 2013  
Dirac Twidwell, 2011- 2013  
Eric Thacker, 2011-2013  
Julia Earl, 2014- present  
Rheinhardt Scholtz 2015- present  
Evan Tanner 2016- present.

#### *M.S. Committees*

Timothy N. Bodine, 1997- 1999, (Animal Science)  
Holly Beck, 1997- 2001 (Botany)  
Andy O'Neil 1999- 2001 (Animal Science)

Shauna Ginger 1999-2002 (Zoology)  
Arron Roper, 2000-2003 (Rangeland Ecology and Management)  
Jay Kerby, 2000 – 2003 (Rangeland Ecology and Management)  
Bob Baker, 2000-2003 (Zoology)  
Todd Puckett, 2000- 2003 (Zoology)  
Chris O'Melia, 2000-2004 (Rangeland Ecology and Management)  
Jared Linneman, 2000-2004 (Botany)  
Michael Pettijohn 2001-2003 (Agronomy)  
Tim Hiller, 2001-2004 (Zoology)  
Valerie Horncastle 2001-2003 (Zoology)  
Beth Moeller 2002- 2004 (Zoology)  
Sherry Leis 2002- 2004 (Rangeland Ecology and Management)  
Jill Sporrang 2002- 2004 (Zoology)  
Loretta Rush 2004-2006 (Entomology and Plant Pathology)  
Martin Piorkowski 2004-2006 (Zoology)  
Chelsea Farris 2007-2008 (Environmental Science)  
Vince Cavalieri, 2007-2008 (NREM)  
Jesse Burton 2007- 2009 (NREM)  
Adrian Monroe, 2008 – 2010 (NREM)  
Jason Heinen, 2007-2009 (NREM)  
Amber Breland, 2007-2010 (NREM)  
Micah Meyer, 2009-2013 (NREM)  
Kenny Wallen, 2009-2013 (Zoology)  
Amanda West, 2011-2013 (NREM)  
Dillon Fogarty, 2014-present (NREM)  
Mandy Lipinski, 2015-present (University of Nebraska)  
Ben Hemingway 2015- present (Geography)

#### *Ph.D. Committees*

Callan Ackerman, 1997- 1999, (Animal Science)  
Elena Jigoulina, 1998-2001 (Soil Science)  
Jack Eckroat, 1997- 2001, (Rangeland Ecology and Management)  
Lance Vermeire, 1999 to 2002 (Texas Tech University, Range & Wildlife Department)  
Susan Mullins 1998- 2002, (Rangeland Ecology and Management)  
Dave Onorato 1999-2003 (Zoology)  
Jeffery Lusk, 1998- 2004 (Forestry)  
Amy Ganguli, 2000-2005 (Rangeland Ecology and Management)  
Michaela Buenemann, 2004-2006 (Geography, University of Oklahoma)  
David Walter 2002-2007(Zoology)  
Greg Broussard, 2002- Present (Entomology)  
Georges Backoulou, 2003- 2008 (Geography)  
Ryan Limb 2005-2008 (NREM)  
Gene Albanese 2007-2011 (NREM)  
Jessica O'Connell 2008-2011 (Zoology)  
Jeff Howard 2009-2013 (Zoology)  
Torre Hovick 2010-2014 (NREM)  
J. Derek Scasta, 2011- 2014 (NREM)  
Shaun McCoshum 2013- present (Zoology)  
Evan Tanner, 2012-present (NREM)  
Matt Carroll, 2012-present (NREM)

#### *Curriculum and Course Development at OSU*

1. I developed a new course, Applied Ecology & Conservation. This course serves as core for all NREM majors.

2. I developed a new course, *Ecology of Fire-dependent Ecosystems*, for Graduate Students.
3. I developed new curriculum in 2007 for Rangeland Ecology and Management in the department of *Natural Resource Ecology and Management*
4. I worked with the Curriculum Committee to create new degree options in *Plant and Soil Sciences (Applied Landscape Ecology & Ecosystem Management)*.
5. Served on a committee to revise curriculum for Plant and Soil Sciences to promote natural resources and conservation while maintaining more traditional production components.
6. I was part of an inter-disciplinary team that initiated a multi-disciplinary program *Conservation Ecology and Management* that has integrated courses from Arts and Sciences with Rangeland Ecology courses and Forestry courses to provide broader degrees and options for undergraduate and graduate students. This program is currently housed in Arts and Sciences and referred to as *Conservation Science*.
7. I initiated a major revision to the curriculum in the Rangeland Ecology and Management option to reflect changes occurring throughout the discipline 2000-2001.
8. I developed a new curriculum for students interested in wildlife habitat that was ultimately incorporated into the Rangeland Ecology and Management curriculum and includes a minor in Wildlife Management in 2001.
9. I developed five new courses in four years (1997-2002):
  - Landscape and Community Ecology of Rangelands RLEM 4934
  - Rangeland Monitoring RLEM 4961
  - Plant Succession on Rangelands RLEM 5760
  - Ecology of Natural Resources RLEM 2913
  - Ecology of Rangeland Habitats and Landscapes RLEM 4954/5954
10. Took a course in Range Ecology that had 10-15 students every other year and developed it into a general education course that has over 100 students every year and provided general education credit with an N designation.

### ***Undergraduate Recruiting at OSU***

1. I have attempted to develop several new degree programs to meet the needs and desires of students that are interested in Natural Resources Ecology and Management.
2. I have worked with other departments to offer minors so that our students can interact across disciplines.
3. Our recruitment efforts successfully increased student enrollment in the Rangeland Ecology and Management program from 8 students in 1996 to over 30 students.
4. Cooperated with other faculty to present an overview of the departmental program to groups of potential students and their teachers.
5. Served as an instructor for the 4-H Range Camp to expose prospective students to rangeland ecology and management in an informal field setting. This effort has resulted in the recruitment of several students into the Rangeland Ecology and Management program.
6. Represented the Department in the Career Fair to interact with students and potential employers.

### ***Experience- Research***

**1997-Present** Oklahoma State University— Assistant Professor, Associate Professor, Professor

**1. Serve as project leader from 1997- 2011 to facilitate long-term multidisciplinary research on the Marvin Klemme Range Research Station**

- established permanent sampling points
- collected baseline vegetation and soils data
- maintain long-term grazing treatments
- developed an integrated interdisciplinary team that conducted cooperative research with diverse programs including Botany, Zoology, Animal Science, Soil Science, and NREM

## 2. Currently conducting numerous rangeland research projects at multiple locations throughout the Southern Great Plains

- *Adapting Socio-ecological systems to increased climate variability.* Funded in 2013 for 5 years by the National Science Foundation- EPSCoR research Infrastructure Improvement Program: Track-2. For \$20,000,000.00. My portion is \$1,600,000. I am focused on contributing to the ecological observatory that is part of the model of the Socio-ecological system. Currently this project is funding one technician and two Post-doctoral research associates.
- *CNH: Slowing the Expansion of woodlands and increasing the resilience of grasslands in the southern Great Plains.* Funded in 2014 for \$1,499,378 over three years. Wilcox et al. Fuhlendorf one of 7 co-PIs. NSF- DEB- Dynamics of Coupled Human- Natural Systems. We are attempting to develop a model for portions of Texas, Oklahoma and Kansas where we look at the encroachment of woody plants as a socio-ecological issue.
- *Distribution of coyotes in the Tallgrass Prairie Preserve.* PI with colleagues from NREM. This project is funded by The Nature Conservancy and we will have GPS collars on coyotes that have access to a heterogeneous landscape with natural and anthropogenic disturbances. I have one MS student on this project.
- *Managing fuels while enhancing prairie chicken habitat.* CoPI with colleagues from NREM. The Joint Fire Sciences Program funded this project from 2013-2016 for \$274,218 to evaluate approaches to integrate management for fuels reduction and multiple prairie chickens. I have one PhD student starting this summer.
- *Impacts of Fragmentation and Heterogeneity Resource Selection, Survival, and Recruitment of Lesser Prairie Chickens in Oklahoma.* Funded by ODWC for \$428,000 over 3 years to determine oil and gas impacts on Lesser Prairie Chickens. This project supports one PhD student working for me.
- *Determining the Impacts of Energy Development on Greater Prairie-Chickens.* Private anonymous donation. \$50,000. Co-PI with Dwayne Elmore. I currently have a Masters Student (David Londe) that will work on this project.
- *Evaluation of Northern Bobwhite in Western Oklahoma-* I am a Co-PI for this project (with Dwayne Elmore and Craig Davis) that is funded for \$2.7 million from Oklahoma Division of Wildlife Conservation to evaluate the decline and understand dynamics of bobwhite quail. We currently have two PhD students and a Post-Doctoral research associate on the project.
- *Development and evaluation of dynamic vegetation models for grassland fuels under variable fire and grazing regimes.* This project involved faculty from NREM, Bioscience and Ag Engineering, Plant and Soil Sciences and the MESONET and was focused on understanding dynamics of fuels in Oklahoma grasslands. I hired a post-doctoral research associated for 2.5 years (Dirac Twidwell- now an assistant professor at University of Nebraska). Funding is provided by the Joint Fire Sciences Program.

## 3. Completed projects at OSU.

- *Climate Change Induced Shifts for Nonforested Plant Communities in the Western United States-* I PI for this project for 2012-2015. \$395,815 funded by the US Army Engineer Research and Development Center (ERDC) Broad Agency Announcement (BAA). This project supported a Post-Doctoral Research Associate and modeled predicted ecosystem transitions for the western United States.

- *Role of rangeland heterogeneity in biodiversity, riparian stability, livestock production, and landowner landscape preference. I am PI of this project that was funded for \$500,000 over 4 years through USDA-AFRI. This project involve research at the Stillwater Research Range and Tallgrass Prairie Preserve. Torre Hovick was funded through this project.*
- *Restoring Rangeland Heterogeneity- Focused on evaluating a fire-grazing model that promotes landscape heterogeneity and could potentially facilitate the integration of wildlife management, conservation biology and livestock production. The project has been supported by grants from OAES-TRIP and The Nature Conservancy and a competitive grant has been funded for \$340,000 through USDA Managed Ecosystems (Fuhlendorf, Engle, Davis & Leslie). Research has been conducted at the Stillwater Research Range (OSU), Marvin Klemme Range Research Station (OSU), Cooper Wildlife Management Area (ODWC), Tallgrass Prairie Preserve (The Nature Conservancy), and the Mesa Vista Ranch (Boone Pickens).*
- *Pyric-herbivory in the Boreal Forests. 2010. This project is supported through the Ministry of Forest and Range in Northeast British Columbia and will focus on understanding the interaction of fire and grazing/browsing in driving heterogeneity of the region. Currently I am working with Sonja Leverkus from British Columbia on this project. She completed her PhD in December of 2016.*
- *Comparison of Bison and Cattle effects on ecosystems from a conservation perspective. This project is supported by the Wildlife Conservation Society who invited me to develop a white paper and publication that discusses the importance of different grazers to conservation.*
- *Interdisciplinary team of grassland scientist- This project is funded by the OSU-Provost Office to evaluate historical, current and future drivers of grassland dynamics and the influence on societies that are dependent on them.*
- *Pyric-herbivory: Recoupling the fire-grazing interaction to restore fire and grazing dependent ecosystems. 2008. This is a project funded by The Nature Conservancy and the Wichita Mountains National Wildlife Refuge. TNC provided \$50,000 for 4 years and WMNWR provided \$96,000 to determine the role of fire in altering grazing patterns of bison and elk.*
- *Broader Implications of heterogeneous burning regimes in rangelands: potential for control of disease vectors and pollination services. This project is funded by USDA CSREES-NRI Managed Ecosystems. 2009. Baum, K., SD Fuhlendorf, M. Reichard. \$376,006 for 36 months. This project is an extension of some of our previous work on fire and grazing.*
- *Interactions between plant and soil ecosystems that regulate rangeland sustainability. This project is funded by USDA- Rangeland Research Program. 2009. S. Deng, SD Fuhlendorf, J Anderson. \$168,565 over 3 years. We will focus on understand plant and soil dynamics associated with native rangelands and land previously cultivated under different grazing patterns.*
- *Conservation Effects Assessment Program (CEAP)- NRCS supported focus on determining if conservation practices conducted on private rangelands are achieving the desired results. I completed my role as chair of the national panel on prescribed fire and as a member of the panel on landscape perspectives. Both papers have been submitted to the NRCS.*
- *Restoring evolutionary grazing patterns to inhibit invasive species- This project was funded by USDA-NRI for \$500,000 over 4 years. We have used fire to alter grazing behavior and reduce selectivity of most palatable plant species*

*and avoidance of potential invaders. I am PI of the project with several co-PIs at OSU and several at Iowa State University.*

- *Developing a monitoring protocol for ecosystem health at the Charles M. Russell USFW Refuge in Montana. I recently completed one graduate student (Angie Reid) on this project and have recently started another student. The refuge has provided to grants for \$50,000 each for the past two years.*
- *Applying patch burning to sand sagebrush rangelands in Western Oklahoma— Our research on rangeland heterogeneity (see below) led to the adoption of our approach to rangeland management by NRCS and ODWC as a recommended management practice. This project is an extension of two USDA-NRI project and was funded by Oklahoma Division of Wildlife Conservation (\$150,000 for 3 years) to apply this concept to western Oklahoma. This project, now completed, supported one two graduate students funded through the Oklahoma Cooperative Fish and Wildlife Research Unit that will both finish in 2009. Craig Davis and I are currently working on manuscripts from this research.*
- *Ecology and economics of herbicide application on rangelands- This project has been initiated at the Stillwater Research Range and the Marvin Klemme Range Research Station (with David Engle). Large scale replicated treatment of typical herbicide applications and controls have been established and are currently being evaluated for livestock production, plant community response, and insect diversity and abundance. Our goal is to develop an ecosystem-based approach and evaluate responses at multiple trophic levels.*
- *Participating in the National Center for Ecological Analysis and Synthesis. Funded by NSF we have a group of international scientist that have met several times to evaluate large ecological questions that require multiple data sets from multiple sites and multiple years. This has resulted in several manuscripts submitted to high level international journals (e.g. Nature)*
- *Review of literature and concepts associated with Rangeland ecology— Cooperation with David Briske and Fred Smeins of Texas A&M University to synthesize ecological information and publish summary journal articles. Has resulted in one synthesis paper for the Journal of Applied Ecology, an Invited Synthesis paper for the inaugural issue of Rangeland Ecology and Management and another Invited Synthesis for Rangeland Ecology and Management on thresholds.*
- *Determining the ecological contribution of CRP to the Shortgrass Prairie. This project is in cooperation with the Rocky Mountain Breeding Bird Observatory and partially funded through FSA on a project with Mike Dicks, Ag. Econ. and Terry Bidwell, Plant and Soil Sciences. I currently have one graduate student supported on this project (Meg McLachlin).*
- *Economics and Ecology of Prescribed burning cooperatives- funded by the USFS for \$65,000 (Fuhlendorf PI). The project is cooperative with Jon Yoder Washington State University, Dave Engle OSU, Dave Lewis OSU, Charles Taylor Texas A&M University. This projects supports one graduate student who is under my advisement and currently completing his thesis.*
- *Landscape structure and bobwhite quail in eastern Oklahoma. This project is funded by ODWC for \$100,000 over 3 years (Fuhlendorf PI). Cooperators on the project include David Leslie, Jr., Fred Guthery OSU, Craig Davis OSU. It is funded through the Oklahoma Cooperative Fish and Wildlife Research Unit. I currently have one graduate student/research associate completing his thesis.*
- *Ecology and management of sand shinnery oak for lesser prairie chickens. This project was in cooperation with the George Sutton Avian center and found that lesser prairie chickens are dependent on sand shinnery oak. This*



*project supported Luke Bell (MS student) and will result in several publications.*

- *Evaluating the shifting mosaic model of tallgrass prairie- This project is funded by The Tallgrass Prairie Preserve for \$30,000 for 4 years (Fuhlendorf PI). I am cooperating with Dave Engle OSU for this project and we are focused on evaluating the fire-grazing interaction on The Tallgrass Prairie Preserve.*
- *Thermal ecology of bobwhite quail- conducted with Fred Guthery, Bollenbach Chair for Wildlife Ecology and supported by Boone Pickens for \$200,000 over 5 years. The project was conducted on his Mesa Vista Ranch. Has resulted in several papers that are currently being reviewed.*
- *Response of small mammals to heterogeneity in tallgrass prairie- This project was funded by an OAES-TRIP for \$30,000 over two years. This project supported one graduate student that is currently preparing 3 peer-reviewed manuscripts.*
- *Bison/Rangeland Alternative Working Group- An interdisciplinary group, including RLEM, Agricultural Economics, Zoology and Animal Science, was supported by the OAES-TRIP to evaluate the potential of economic alternatives for rangeland in western Oklahoma. Resulted in one paper that is in review.*
- *Effects of grazing on restoration of southern mixed prairie soils. Conducted at the Marvin Klemme Range Research Station with Hailin Zhang (Soil Science), Anne Cross (Botany), and David Engle (Rangeland Ecology and Management). Resulted in one peer-reviewed publication in an international journal.*
- *Effects of temperature on nest site selection of ground-nesting birds. Conducted at the Marvin Klemme Range Research Station with Fred Guthery (Forestry). Resulted in one peer-reviewed publication in an international journal and several pending.*
- *Effects of prescribed burning on habitat structure of sand shinnery communities Conducted at and funded by the USFS-Black Kettle National Grassland with Terry Bidwell (Rangeland Ecology and Management) and resulted in two publications in peer-reviewed international journals.*
- *A Landscape-Level Evaluation of Lesser Prairie-Chicken in Oklahoma, Texas and New Mexico. Conducted on private and public land across the southern Great Plains. Partially funded by ODWC and conducted with David M. Leslie (Oklahoma Cooperative Fish and Wildlife Research Unit; Zoology). This project resulted in two publications in major international journals and two extension fact sheets.*
- *Urban sprawl and juniper encroachment effects on abundance of wintering passerines in Oklahoma. Conducted throughout Oklahoma with Bryan Coppedge (Plant and Soils Sciences-Post Doc), David Engle (Plant and Soil Sciences), Ron Masters (Forestry), Mark Gregory (Plant and Soil Sciences) and resulted in one peer-reviewed publication.*
- *The economic logic of prescribed burning law and regulation. Conducted with Jonathon Yoder (Ag. Econ), Marcia Tilley (Ag. Econ.), and David Engle (Plant and Soil Sciences) and resulted in 2 publications in international peer-reviewed journals.*
- *Effects of patch fire on grazing distribution and vegetation structure on sand sagebrush rangelands. Conducted in cooperation with Texas Tech University and resulted in 2 publications in peer-reviewed international journals (one additional paper in review).*

- 1996-1997** Texas A&M University—Rangeland Ecology and Management- Post-Doctoral Research Associate  
*Quantification of vegetation transitions and thresholds on diverse landscapes*
- 1992-1996** Texas A&M University—Rangeland Ecology and Management- PhD Graduate Student  
*Long-term influences of weather, grazing and fire on rangeland vegetation dynamics*
- 1990-1992** Texas A&M University—Rangeland Ecology and Management- MS Graduate Student  
*Life history and community ecology of Ashe juniper under different browsing histories*

## **Publications**

### *Peer-reviewed Articles- (ISI impact factor = Impact factor in 2013)*

1. Fuhlendorf, S.D., F.E. Smeins and W.E. Grant. 1996. Simulation of a fire-sensitive ecological threshold: A case study of Ashe juniper on the Edwards Plateau, Texas, USA. *Ecological Modelling* 90: 245-255. (Impact Factor=2.3)
2. Fuhlendorf, S.D. and F.E. Smeins. 1996. Spatial scale influence on long term temporal patterns of a semi-arid grassland. *Landscape Ecology* 11: 107-113. (Impact Factor = 3.1)
3. Fuhlendorf, S.D. and Smeins, F.E. 1997. Long-term vegetation dynamics mediated by herbivores, weather and fire in a juniperus-quercus savanna. *Journal of Vegetation Science* 8: 819-828. (Impact Factor = 2.7)
4. Fuhlendorf, S.D., F.E. Smeins and C.A. Taylor. 1997. Influence of tree size and browse history on understory relationships of Ashe juniper. *Journal of Range Management*. 50: 507-512. (Impact Factor = 1.5)
5. Fuhlendorf, S.D. and F.E. Smeins. 1998. Influence of soil depth on plant species response to grazing within a semi-arid savanna. *Plant Ecology* 138:89-96. (Impact Factor = 1.8)
6. Coppedge, B.R., S.D. Fuhlendorf, D.M. Engle, B.J. Carter, and J.H. Shaw. 1999. Grassland soil depressions: Relict bison wallows or inherent landscape heterogeneity? *American Midland Naturalists* 142: 382-392 (Impact Factor = 0.6)
7. Fuhlendorf, S.D. and F.E. Smeins. 1999. Scaling effects of grazing in a semi-arid savanna. *Journal of Vegetation Science*: 10: 731-738. (Impact Factor = 2.7)
8. Fuhlendorf, S.D. 1999. Ecological considerations for woody plant management. *Rangelands* 21: 12-15. (Impact Factor = NA)
9. Fuhlendorf, S.D., C.S. Boyd, and D.M. Engle. 1999. SRM philosophy: Science or Advocacy. *Rangelands* 21: 20-23. (Impact Factor = NA)
10. Fuhlendorf, S.D. and D.M. Engle. 2001. Restoring heterogeneity on rangelands: ecosystem management based on evolutionary grazing patterns. *Bioscience* 51:625-632 (Impact Factor = 4.6)
11. Woodward, A.J.W., S.D. Fuhlendorf, D.M. Leslie, Jr., and J. Shackford. 2001. Influence of Landscape Composition and Change on Lesser Prairie-chicken Populations. *American Midland Naturalist* 145: 261-274. (Impact Factor = 0.6)
12. Harrell, W.C., S.D. Fuhlendorf, and T.G. Bidwell. 2001. Effects of prescribed fire on sand shinnery oak communities. *Journal of Range Management* 54: 685-690. (Impact Factor = 1.5)

13. Fuhlendorf, S.D., D.D. Briske and F.E. Smeins. 2001. Herbaceous community structure in a semi-arid savanna: The relative contribution of grazing and climatic variability. *Applied Vegetation Science* 4: 177-188. (Impact Factor = 1.7)
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37. Fuhlendorf, Samuel D., Brady W. Allred, and Robert G. Hamilton. 2010. Bison as Keystone Herbivores on the Great Plains: Can Cattle Serve as Proxy for Evolutionary Grazing Patterns? ABS Working Paper No. 4
38. Fuhlendorf, SD, RF Limb, DM Engle and RF Miller. 2011. Assessment of prescribed fire as a conservation practice. *In*: Briske, D.D., editor. {2011}. *Conservation Benefits of Rangeland*

Practices: Assessment, Recommendations, and Knowledge Gaps. United States Department of Agriculture, Natural Resources Conservation Service.

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40. Weir, J.R., R.D. Elmore, R.F. Limb, D.M. Engle, B.W Allred, T.G. Bidwell, and S.D. Fuhlendorf. 2011. Burning in the Growing Season. Oklahoma State University Extension Fact Sheet E-1025
41. Fuhlendorf, S.D., B.W Allred, R.D. Elmore, and D.M. Engle. 2012. Linking disturbance regimes, vegetation dynamics, and plant strategies across complex landscapes to mitigate and manage plant invasions. in T.A. Monaco and R.L. Sheley, editors. Invasive Plant Ecology and Management: Linking Processes to Practice. CABI
42. Leverkus, S.E.R. and Fuhlendorf, S.D. 2013. Fire, Grazing and Grasslands. BC GRASSLANDS NEWSLETTER. Published by the BC Grassland Conservation Council. FEBRUARY 2013.
43. S.E.R. Leverkus, S.D. Fuhlendorf, L.C. Lowe, K.M. Wolfenden, L.A. Needlay and E. Needlay. 2013. Put the fire back in their hands. BC Grasslands Newsletter as published by the BC Grassland Conservation Council. March 2013.
44. Zhou, C, D Turton, R Will, S Fuhlendorf, D Engle, K Winton. 2014. Eastern redcedar encroachment and the water cycle in tallgrass prairie . Oklahoma Water Resources Research Institute.
45. Leverkus, Sonja, Chris Shippmann, Lana Lowe, Sam Fuhlendorf and Robert Gray. 2014. Bison and Fire: continuing the tradition. BC Forest Professional . July-August 2014.
46. Fuhlendorf, SD, RWS Fynn, DA McGranahan, D Twidwell. In Review. Heterogeneity as the basis of rangeland management. Rangeland Systems Edited by David D. Briske.

### ***Symposia and workshops organized***

- Delivering on the promise of ecological science to improve land management: Ecological site descriptions, and informal discussion. 2005. Ecological Society of America. Organizers: Linda Wallace, University of Oklahoma, and Sam Fuhlendorf, Oklahoma State University. Section Sponsors : Rangeland Ecology Section
- Biogeochemistry of Grassland and Shrubland Ecosystems:Local to Regional Linkages and Impacts of Land Use. 2003 Ecological Society of America Annual Meeting. Organizers: Bob Nowak, University of Nevada, Reno; Sam Fuhlendorf, Oklahoma State University. Section Sponsors: Rangeland Ecology Section; Soil Ecology Section; Applied Ecology Section.
- Workshop – Strategies for Increasing the Relevance of Rangeland Ecological Research. 2003 Ecological Society of America Annual Meeting. Organizers: Jeff Herrick, USDA-ARS Jornada Experimental Range and Sam Fuhlendorf, Oklahoma State University.
- Fire Ecology and Management on Central and Southern Great Plains Rangelands. Society for Range Management Annual Meeting, Kansas City, Missouri. J. Ansley, Texas A&M, D. Engle and S.D. Fuhlendorf, Oklahoma State University

### ***Invited Presentations***

- Fuhlendorf, SD. 2016. Rangeland Phantasmagoria: Fire and grazing for rangeland conservation. Plenary Session of the Minnesota Chapter of the Wildlife Society. 2016 Annual Meeting. Mankato Minnesota. February 9-11, 2016.
- Fuhlendorf, SD, RWS Fynn, DA McGranahan, D Twidwell. 2016. Heterogeneity as the basis of rangeland management. Symposium: Conceptual Developments of the Rangeland Profession

- over the past 25 years. Annual Meeting of the Society for Range Management. February 1, 2016. Corpus Christi, Texas.
- Fuhlendorf, SD. 2016. Rangelands as thermal landscapes: Temperature across spatial and temporal scales. Symposium: Thermal ecology in rangelands. Annual Meeting of the Society for Range Management. February 1, 2016. Corpus Christi, Texas.
- Fuhlendorf, SD. 2015. Paul Buck Memorial Lecture: Dr. Samuel Fuhlendorf. The University of Tulsa. Sixth Annual Paul Buck Memorial Lecture. April 15, 2015.
- Fuhlendorf, SD, RF Limb, RD Elmore, J. Weir, S. Leverkus. 2015. Importance of fire to conserve and restore wildlife on working rangelands in the Northern Great Plains. Symposium: Wildlife management on Northern Great Plains rangelands. Annual meeting of The Wildlife Society in Winnipeg Canada.
- Leverkus, S.E.R., S.D. Fuhlendorf, M. Geertsema, R.D. Elmore, D.M. Engle and K.A. Baum. 2015. Conservation Planning and Policy: Conserving Wildlife Through Shifting Mosaics. The 22nd Annual Conference of The Wildlife Society. Winnipeg, Manitoba October 16-21 2015.
- Fuhlendorf, SD, CA Davis, RD Elmore, EM Engle, TJ Hovick. 2015. The evolution of rangeland conservation thanks to one man's elegant figure. American Ornithological Union Annual Meeting in Norman Oklahoma. Symposium: Grassland Birds: A Tribute to Fritz Knopf.
- Fuhlendorf, SD. 2015. Making rangeland vegetation science more useable. Ignite Session: Rangeland Useable Science. Annual meeting of the Ecological Society of America in Baltimore, Maryland.
- Fuhlendorf, SD. 2015. Thinking outside of the box: Fire, grazing and rangeland health. Drought workshop: Looking ahead: Managing drought and recover on the ranch. Beaver, OK My 21 2015.
- Fuhlendorf, S.D., C.A. Davis, R.D. Elmore, J.M. Carroll, and E.P. Tanner. 2014. Applied landscape ecology for grassland bird conservation and management. 2014 Annual Meeting of The Wildlife Society, Pittsburgh, Pennsylvania, USA.
- Fuhlendorf, SD. 2014. Encroachment of Juniperus species as a socio-ecological problem on private rangelands. Ecological Society of America Annual Meeting. Organized Oral Session: Understanding woody plant encroachment as a coupled human and natural system. Sacramento CA. August 2014.
- Fuhlendorf, SD. 2014. Ecological Phantasmagoria: How do rangelands work? Seminar Series. Utah State University. Department of Wildland Resources. Logan, Utah. April 2, 2014.
- Fuhlendorf. SD. 2014. Ecology and Management of Juniper in the Great Plains. In : Workshop-The Problem with Junipers in the Great Plains and Central US. Orlando, FL, February 12, 2014.
- Samuel D. Fuhlendorf. 2013. Why fire should be a central tenent for rangeland ecology and management. Plenary Session. 2013 Society for Range Management Annual Meeting. Oklahoma City, Oklahoma, USA. February 4, 2013.
- Samuel D. Fuhlendorf. 2013. Ecological Phantasmagoria: How do grasslands work? Biology Departmental Seminar. Northeastern State University. October 9, 2013.
- Samuel D. Fuhlendorf. 2013. The role of fire in grazed ecosystems. American Prairie Reserves 2013 Annual Gathering, October 4, Big Sky Montana.
- Samuel D. Fuhlendorf. 2012. Managing Rangelands and Forage Crops during and after Severe Drought. Cameron University's 25<sup>th</sup> Annual Beef Cattle Improvement Conference, presented by the Department of Agriculture, will examine "Management Strategies to Recover from the Recent Droughts" on Thursday, November 15.

- Samuel D. Fuhlendorf. 2012. Transformation of Great Plains Landscapes: Rates, Patterns and Causes of Cedar Invasions. 86th Annual Meeting of the Southwestern and Rocky Mountain Division convened 31 March to 4 April at the University of Tulsa.
- Samuel D. Fuhlendorf. 2012. Transformation of Great Plains Landscapes: Rates, Patterns and Causes of Cedar Invasions. University of Tulsa, Biology Department Seminar Series.
- Samuel D. Fuhlendorf. 2012. What is (and isn't) the Fire-Grazing interaction? In which grasslands did the interaction operate historically? Southwestern Fire Ecology Conference. Fire landscapes, wildlife & people: Building alliances for restoring ecosystem resilience. February 29, 2012. Santa Fe, New Mexico.
- Samuel D. Fuhlendorf. 2011. Ecological Phantasmagoria: Restoring fire and grazing to complex landscapes. Texas A&M University, Ecosystem Science and Management Departmental Seminar. November 15, 2011.
- Samuel D. Fuhlendorf. 2011. Fire-grazing interaction on grassland landscapes: Do all prairies need to be burned and grazed?. 4<sup>th</sup> annual Fire in Eastern Oak Forests Conference, May 17-19, 2011, Springfield Missouri.
- Engle, D, SD Fuhlendorf, BW Allred, D Elmore and CB Zou, 2011. Recoupling fire and grazing interactions to restore rangelands degraded by woody plant encroachment and climate change: a patch-burning approach to management. Organized Session: Sustaining Rangelands in the Southern Great Plains: Adapting to and Mitigating for Climate Change. Ecological Society of America annual meeting. Austin Texas.
- Fuhlendorf, SD, BW Allred, DM Engle and D Elmore, 2011. Pyric Herbivory: The fire-grazing interaction as a critical ecological process. Organized Session: The Fire-Grazing Interaction: An integral ecosystem process. Ecological Society of America annual meeting. Austin Texas.
- Winter, S, S Fuhlendorf, C Goad, C Davis, K Hickman and D Leslie. 2011. Pyric herbivory in Artemisia shrubland of the southern Great Plains, North America. Organized Session: The Fire-Grazing Interaction: An integral ecosystem process. Ecological Society of America annual meeting. Austin Texas.
- Fuhlendorf, SD. 2011. Synthesis: Grasslands in a Global Context. An Anniversary Symposium Celebrating the Konza Prairie Biological Station and LTER program. Keynote Speaker. September 12-14, 2011. Manhattan Kansas.
- Samuel D. Fuhlendorf. 2010. Pyric herbivory: conservation from restoring evolutionary interactions of fire and grazing. Biological Sciences Seminar Series. Wichita State University, November 8 2010.
- Samuel D. Fuhlendorf. 2010. Conservation of tallgrass prairie through restoring the fire-grazing interaction. 37<sup>th</sup> Annual Natural Areas Conference: Symposium Tallgrass Prairie Ecology. Osage Beach Missouri October 28 2010
- Samuel D. Fuhlendorf. 2010. Prescribed burning to improve rangeland diversity. Plenary Speaker. Texas Section of the Society for Range Management. Odessa Texas October 13-15, 2010
- Samuel Fuhlendorf, R. Dwayne Elmore, Robert Hamilton, Terry Bidwell, Amber Breland. 2010. Management for mosaics to promote greater and lesser prairie chickens. **Symposium:** Management of Lekking Bird Habitat. Society for Range Management Annual Meeting. Denver Colorado. February 10, 2010.
- Fuhlendorf, S. 2010. Fire, Grazing and Heterogeneity of Rangelands. The Grassland Managers Meeting, USFS. Quartz Mountain Oklahoma. May 4-5, 2010.
- Samuel D. Fuhlendorf, David M. Engle, R. Dwayne Elmore, Terrence G. Bidwell. 2010. Contrasting Conservation Management and Commodity Management of Privately Owned Rangeland.

- Symposium:** Conservation Management on Private Rangelands. Society for Range Management Annual Meeting. Denver Colorado. February 8, 2010
- Fuhlendorf, SD. 2010. Management of fire and grazing for conservation and production on rangelands. Kansas Coffee Shop meetings, Beloit Kansas. January 20, 2010. 72 attendees; ranchers and agency personnel.
- Fuhlendorf S, Wilcox B, Will R, Engle D, Zou CB. 2009. Grassland to woodland transitions: Linking hydrology and vegetation dynamics. **Symposium:** Rangeland Ecohydrology: Key concepts and application to State and transition Model Development. 62nd Society for Range Management Annual Meeting. February 8-12, 2009. Albuquerque, New Mexico.
- Fuhlendorf, SD, DM Engle, R. Limb, R. Miller. 2009. Assessment of Prescribed Fire as a Conservation Practice. **Symposium:** Conservation Effects Assessment Project Rangeland Synthesis: An Initial Report. 62nd Society for Range Management Annual Meeting. February 8-12, 2009. Albuquerque, New Mexico.
- Wu, B, B. Besteolmeyer, J Brown, S Fuhlendorf 2009. Assessment of the landscape aspects of conservation practices. **Symposium:** Conservation Effects Assessment Project Rangeland Synthesis: An Initial Report. 62nd Society for Range Management Annual Meeting. February 8-12, 2009. Albuquerque, New Mexico.
- Fuhlendorf, S.D. 2009. Pyric-herbivory: pattern and process on large landscapes with fire and grazing. **Keynote Address:** What's Hot and What's Not: Fire and Weeds in North East British Columbia. British Columbia Ministry of Forest and Range. March 3<sup>rd</sup>- March 5<sup>th</sup>, Fort Nelson, British Columbia.
- Fuhlendorf, S.D. 2009. Invasive Weeds 101. **Symposium:** What's Hot and What's Not: Fire and Weeds in North East British Columbia. British Columbia Ministry of Forest and Range. March 3<sup>rd</sup>- March 5<sup>th</sup>, Fort Nelson, British Columbia.
- Fuhlendorf, S.D. 2009. Prescribed Fire in Oklahoma. **Symposium:** What's Hot and What's Not: Fire and Weeds in North East British Columbia. British Columbia Ministry of Forest and Range. March 3<sup>rd</sup>- March 5<sup>th</sup>, Fort Nelson, British Columbia.
- Fuhlendorf, S.D. 2008. The ecological role of Bison in a burning landscape. **Keynote address:** American Bison Society Conference. November 6-8 2008. Rapid City, South Dakota.
- Fuhlendorf, S.D., DM Engle, R Limb. 2008. Fire and resilience from a biodiversity perspective: the role of spatial and temporal heterogeneity. **Symposium:** Ecosystem resilience and fire: ecological and management perspectives. Pacific Coast Fire Conference: Changing Fire Regimes, Goals and Ecosystems. December 1-4, 2008. San Diego California.
- Fuhlendorf, SD. 2008. Research challenges and opportunities for future rangelands. Visiting Scientist Program at Eastern Oregon Agricultural Research Center. September 24, Burns Oregon.
- Fuhlendorf, SD. 2008. Understanding the interaction of fire and grazing to restore heterogeneity and biodiversity to rangelands. Charles M. Russell Wildlife Refuge Special Seminar. September 29, 2008. Lewistown Montana.
- Fuhlendorf, S.D. 2008. Restoration of evolutionary fire-grazing interactions to limit invasion of exotic forages in the central grasslands. **Organized Session:** Biology of Weedy and Invasive Species in Agroecosystems: Case Studies. Ecological Society of America, Annual Meeting. August 3 – 8 2008. Milwaukee, Wisconsin.
- Fuhlendorf, S.D. and K.R Hickman. 2008. Biodiversity and Invasive species: Challenges and opportunities for rangeland research. **Symposium:** Current Ecological Issues in Grassland Science. Society for Range Management Annual Meeting. Louisville, Kentucky, January 26-February 1, 2008.

- Fuhlendorf, S.D., S. Leis, R. Moranz. 2008. Is patch burning a silver bullet for conservation of rangelands? Challenges, opportunities and future directions. **Symposium:** Use of heterogeneity-based grassland management techniques for improved wildlife habitat: What does it look like? Society for Range Management Annual Meeting. Louisville, Kentucky, January 26-February 1, 2008.
- Fuhlendorf, S.D. 2007. Pyric-herbivory: Rewilding through the recoupling of the fire-grazing interaction. **Symposium:** Ancient Extinctions and Modern Experiments: The ecological effects of adding and removing megaherbivores from the landscape. Ecological Society of America. Annual meeting. San Jose, California. August 6, 2007.
- Fuhlendorf, S.D. 2007. Prairie management with fire and grazing. Wildlife Division Meeting, Building on our legacy-implementation. Mahoney State Park, Nebraska, September 26, 2007.
- Fuhlendorf, S.D. 2007. Restoring heterogeneity to rangelands: Ecosystem management based on evolutionary fire-grazing interactions. Scientific Seminar Series, Archbold Biological Station. March 22, 2007.
- Fuhlendorf, S.D., J. Ansley, C.A. Taylor, D.M. Engle, J. Weir, T. Bidwell 2007. Fire ecology of the Southern Great Plains. **Symposium:** Fire Ecology of semi-arid lands. International Meeting of the Society for Range Management. February 13, 2007. Reno, Nevada.
- Fuhlendorf, S.D. D.M. Engle, J Kerby, K. Hickman, C.A. Taylor. 2007. The interaction between fire and grazing on the southern Great Plains. **Symposium:** Fire Ecology of semi-arid lands. International Meeting of the Society for Range Management. February 13, 2007. Reno, Nevada.
- Fuhlendorf, S.D. 2007. Development of models for conservation concerns. **Symposium.** Research Directions for Ecological Site Descriptions. International Meeting of the Society for Range Management. February 13, 2007. Reno, Nevada.
- Fuhlendorf, S.D. 2006. Restoring heterogeneity on rangelands. **Keynote Speaker of the Plenary Session.** Grassland Society of Southern Africa. Warmbaths, South Africa. July 17, 2006.
- Fuhlendorf, S.D. 2006. Restoring heterogeneity on rangelands. University of Kwa-Zulu Natal, Pietermaritzburg, South Africa. July 23, 2006.
- Fuhlendorf, S.D. 2006. Restoring heterogeneity on rangelands. University of Fort Hare, South Africa. July 28, 2006.
- Fuhlendorf, S.D. 2006. Integrating scale and heterogeneity into wildlife habitat research and management. **Symposium:** Wildlife Habitat Analysis of the Future: Examining Multiple Scales Using Geospatial Technology. Annual Meeting of the Society for Range Management, Vancouver Canada, February 13, 2006
- Fuhlendorf, S.D. 2006. How do grazing systems influence community structure and function? **Symposium:** Effectiveness of Grazing Systems on Rangelands-A Critical Examination of the Evidence. Annual Meeting of the Society for Range Management, Vancouver Canada, February 16, 2006
- Fuhlendorf, S.D. 2006. Fire and grazing for conservation of biodiversity. US Fish and Wildlife Service, Regional Fire Management Workshop, San Antonio Texas. January 25, 2006.
- Fuhlendorf, S.D. and D.M. Engle. 2005 **Closing Keynote:** Using the fire-grazing interaction to restore heterogeneity on rangelands. TallTimbers Fire Ecology Conference, Bartlesville Oklahoma, October 17-20, 2005.
- Fuhlendorf, S.D. 2005. **Keynote Address:** Promoting heterogeneity on rangelands. US Forest Service- 2005 National Grassland Managers Meeting. May 10-12. Pueblo Colorado.
- Fuhlendorf, S.D. 2005. **Keynote Address:** Fire-grazing interaction for heterogeneity. Fire Learning Network. Tallgrass Prairie Preserve, March 29, 2005. Pawhuska Oklahoma.



- Fuhlendorf, S.D. 2005. Heterogeneity and conservation of grassland ecosystems. Great Plains Grasslands Conservation: Progress, Priorities, and Strategies for the Future. Fort Collins, Colorado. February 22-25, 2005.
- Fuhlendorf, S.D. 2005. Fragmentation of the Great Plains: Fragmentation of a fragmented landscape. **Symposium:** Energy Development and Biodiversity. Society for Range Management Annual Meeting. Ft. Worth Texas. February 3-8, 2005
- Russell, R., S. Wood, S. Fuhlendorf, E. Muldavin, I. Woiwod. 2005. Why empirical tests of theory mandate more attention to ecological context: Using local versus regional drivers of local species richness as a case-study. **Organized Oral Session 53:** Days to decades and meters to miles: Exploring community dynamics across scales, taxa, and habitats. Ecological Society of America Annual meeting, Montreal, Canada. August 7-13, 2005.
- Woiwod, I, D. Currie, S. Fuhlendorf, U. Gaedke, J. Houlahan, and T. Willis 2005. A test of the 'neutral model' assumption of stochastic zero-sum communities. **Organized Oral Session 53:** Days to decades and meters to miles: Exploring community dynamics across scales, taxa, and habitats. Ecological Society of America Annual meeting, Montreal, Canada. August 7-13, 2005.
- Cumming, G., J. Houlahan, S. Fuhlendorf. 2005. Linking spatial and temporal variability: Do dynamic feedbacks exist? **Organized Oral Session 53:** Days to decades and meters to miles: Exploring community dynamics across scales, taxa, and habitats. Ecological Society of America Annual meeting, Montreal, Canada. August 7-13, 2005.
- Cottenie, K., E. Morgan, S. Fuhlendorf, R. Stevens, 2005. Dispersal through time: Temporal metacommunity dynamics of annual desert plant communities. **Organized Oral Session 53:** Days to decades and meters to miles: Exploring community dynamics across scales, taxa, and habitats. Ecological Society of America Annual meeting, Montreal, Canada. August 7-13, 2005.
- Fuhlendorf, S.D. 2004. Restoring heterogeneity to rangelands: what is "proper" distribution?. Joint meeting of Wyoming and South Dakota Society for Range Management. Hot Springs South Dakota. September 2004.
- Fuhlendorf, S.D. 2004. Heterogeneity of grasslands. The Wildlife Society, Nebraska Section. Lincoln, NE. September 24-25.
- Harrell, Wade C., Samuel D. Fuhlendorf, David M. Engle, and Robert Hamilton. 2004. Importance of management-imposed heterogeneity for grassland bird conservation. Grassland Bird **Symposium** The Wildlife Society annual meeting September 2004 Calgary, Canada.
- Fuhlendorf, S.D. 2004. Planning Grassland Ecosystem Diversity based on an historical framework. The 2nd Grassland Symposium of the Thunder Basin Grasslands Prairie Ecosystem Association. May 12-13, 2004. Parkway Plaza, Casper, Wyoming
- Fuhlendorf, S.D., S. Archer, F.E. Smeins, D.M. Engle. 2004. The combined influence of grazing, fire and climate on the *Juniperus*-grass relationships. **Symposium:** Juniper Woodlands. Southwestern Association of Naturalists Annual Meeting. San Antonio, Texas. April 17, 2004.
- Fuhlendorf, S.D. 2004. Spatial organization of rangelands: Heterogeneity vs. Fragmentation. Visiting Scientist Program. Eastern Oregon Agricultural Research Station. USDA-ARS. Burns Oregon.
- Fuhlendorf, S.D. 2004. Moving cattle with fire: Fire, grazing and land management in the Southern Plains. Visiting Scientist Program. Eastern Oregon Agricultural Research Station. USDA-ARS. Burns Oregon.
- Fuhlendorf, S.D. 2003. Managing rangelands for wildlife: fire patches instead of cross fences. 7<sup>th</sup> Annual Meeting of the Lesser Prairie Chicken Interstate Working Group. Garden City, KS
- Fuhlendorf, S.D. 2003. Creating diversity for native flora and fauna. **Plenary Session:** Texas Section, Society for Range Management, Wichita Falls, TX. October 17, 2003.

- Fuhlendorf, S.D. 2003. Ecosystem management for a shifting mosaic on tallgrass prairies. Joint meeting of the Southern and Kansas Sections of the Society for Range Management. El Dorado Springs, Missouri.
- Fuhlendorf, S.D. and D.M Engle. 2003. Multi-scale indicators for conservation of grassland avifauna: heterogeneity vs. fragmentation. **Symposium:** Society for Range Management, Annual Meeting, Casper Wyoming.
- Fuhlendorf, S.D. Conservation gone awry: fragmentation and homogenization of the Great Plains. Oklahoma State University, Forestry Department Seminar Series. Stillwater OK, November 3, 2003.
- Fuhlendorf, S.D. Fragmentation of a Fragmented landscape: Wind Power in the Great Plains. Workshop on Wildlife Effects of Wind Power Facilities. Kansas City, Missouri. March 19, 2003.
- Fuhlendorf, S.D. 2002 Conservation of grassland avifauna: Prioritizing issues. Texas Tech University, Department of Biology Seminar Series. Lubbock Texas. November 6, 2002
- Fuhlendorf, S.D. 2002. Multi-scale indicators for conservation of grassland avifauna: heterogeneity vs. fragmentation. Emporia State University, Department of Biology Seminar Series. Emporia Kansas. November 13, 2002
- Engle, D.M., S.D. Fuhlendorf, and B.R. Coppedge. 2002. Habitat restoration in fragmented Great Plains landscapes. Program and Abstracts. The Wildlife Society 9th Annual Conference. Bismarck, ND.
- Fuhlendorf, S.D. 2002. Fire, Grazing and Landscape Ecology. **Forum Topic:** Fire Ecology and Management on Central and Southern Great Plains Rangelands. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Coppedge, B.R., D.M. Engle, and S.D. Fuhlendorf, R.E. Masters, and M.S. Gregory. 2002. Assessing the effects of landscape fragmentation on grassland birds in the Southern Great Plains. **Symposium:** Landscape Analysis for Rangeland Assessment and Monitoring. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Archer, S.R., S.D. Fuhlendorf, J.C. Scanlan, and F.E. Smeins. 2002. Beyond boxes and arrows: approaches for quantifying state transitions. **Forum Topic:** It Keeps Changing: Using State and Transition Models to Manage Rangelands in the Face of Biological Invasions. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Fuhlendorf, S.D. and D.M. Engle. 2000. States, Communities and Transitions: Illustrated examples from Texas and Oklahoma. Ecological Site Symposium, Grazing Lands Conservation Initiative, Austin, Texas. September.
- Fuhlendorf, S.D. 2000. Patch burning: Restoring Heterogeneity to rangelands. OK Section, Society for Range Management, Bartlesville, Oklahoma. September 16, 2000.
- Suedkamp, K.M., F.S. Guthery, and S.D. Fuhlendorf. 2000. Heat, grazing, and ground-nesting birds. Bollenbach Quail Symposium, Kingfisher, OK. 4 August (Symposium Presentation).
- Suedkamp, K.M., S.D. Fuhlendorf, and F.S. Guthery. 1999. Quantifying the effects of thermal loading: a multivariate approach. Invited Seminar, Department of Forestry, Oklahoma State University, Stillwater, OK. 8 November (Seminar Presentation).
- Fuhlendorf, S.D. Ecological Perspective of Grazing Management. OK Section, Society for Range Management, Woodward, Oklahoma. September 17, 1999.
- Fuhlendorf, S.D. 1997. Vegetation dynamics of an oak-juniper savanna. Oklahoma State University, Botany Department Seminar.
- Fuhlendorf, S.D. Why does brush dominate our rangelands? **Brush Sculptors Symposium,** Texas A&M University Research and Extension Center, San Angelo, TX. 1997.

- Smeins, F.E. and S.D. Fuhlendorf. 1997. Biology/Ecology of Ashe (Blueberry) juniper. **Juniper Symposium**, Texas Agricultural Experiment Station, San Angelo, Texas. Smeins FE., S.D. Fuhlendorf, and C.A. Taylor, Jr. 1997. Environmental and Land Use Changes: A Long-Term Perspective. **Juniper Symposium**, Texas Agricultural Experiment Station, San Angelo, Texas.
- Fuhlendorf, S.D. and F.E. Smeins. 1997. Long-term importance of grazing, fire, and weather patterns on Edwards Plateau vegetation change. **Juniper Symposium**, Texas Agricultural Experiment Station, San Angelo, Texas 1997.
- Smeins, F.E. and S.D. Fuhlendorf 1996. Our Natural Resource Legacy: Past, Present and Future. Society of Range Management, Summer Meeting. San Antonio, Texas.
- Fuhlendorf, S.D. 1995. Simulation of a fire-sensitive ecological threshold: Temporal dynamics of Ashe juniper. AIBS, **Symposium** on Ecological Modeling. San Diego, California. 1995.

### **Published Abstracts/Presentations**

- Carroll, M.J., C.A. Davis., R.D. Elmore, and S.D. Fuhlendorf. 2015. Proximate thermal environments constrain diurnal behavior of Northern bobwhite broods. 2015 Oklahoma Natural Resources Conference, Tulsa, Oklahoma, USA.
- Carroll, J.M., C. A. Davis, R.D. Elmore, and S. D. Fuhlendorf. 2013. Spring dispersal of northern bobwhite quail (*Colinus virginianus*) in western Oklahoma. South Eastern Association of Fish and Wildlife Agencies Annual Conference. Oklahoma City, OK.
- Carroll, J.M., C.A. Davis, R.D. Elmore, and S.D. Fuhlendorf. 2014. Thermal environment as a constraint on movement and habitat use of northern bobwhite broods on the western periphery of their distribution. 2014 Annual Meeting of the Southeastern Association of Fish and Wildlife Agencies. Destin, FL.
- Carroll, J.M., C.A. Davis, R.D. Elmore, and S.D. Fuhlendorf. 2015. Proximate thermal environments constrain diurnal behavior of Northern bobwhite broods. 2015 Oklahoma Natural Resources Conference, Tulsa, OK.
- Carroll, J.M., C.A. Davis, R.D. Elmore, and S.D. Fuhlendorf. 2015. Thermal constraints on critical life history periods of northern bobwhite. 22<sup>nd</sup> Annual Conference of The Wildlife Society, Winnipeg, Manitoba
- Orange JP, Davis CA, Fuhlendorf SD, Elmore RD, and Tanner EP. 2015. Survival, movement, and habitat use of northern bobwhite and scaled quail chicks at the periphery of their range. Oklahoma Natural Resources Conference, 12 February. Tulsa, OK.
- Orange JP, Davis CA, Van Den Bussche RA, Elmore RD, Fuhlendorf SA, Carroll JM, and Tanner EP. 2014. Parasitism, paternity, and brood mixing in two sympatric quail species. 68th Annual Southeastern Association of Fish and Wildlife Agencies Conference, 20 October. Destin, FL.
- Orange JP, Van Den Bussche RA, Trope ME, Davis CA, Fuhlendorf SD, Elmore RD, Carroll MJ, and Tanner EP. 2014. Extra-pair paternity, intra-specific nest parasitism, and brood amalgamation in northern bobwhite. 2014 Joint Meeting of the Oklahoma Section of the Society for Range Management and the Oklahoma Chapter of the Wildlife Society, 30 January. Edmond, Oklahoma.
- Orange JP, Davis CA, Elmore RD, Fuhlendorf SD, and Thacker ET. 2013. Spring dispersal movements of northern bobwhite (*Colinus virginianus*) and scaled quail (*Callipepla squamata*) chick survival in western Oklahoma. 67th Annual Southeastern Association of Fish and Wildlife Agencies Conference, 14 October. Oklahoma City, OK. (Poster).
- Tanner, E. P., M. Papeş, R. D. Elmore, S. D. Fuhlendorf, and C. A. Davis. 2015. When strongholds collapse: gains in future distributions may cost current population sources under future climate projections. The Wildlife Society 22nd National Conference, Winnipeg, Manitoba.

- Tanner, E. P., R. D. Elmore, C. A. Davis, and S. D. Fuhlendorf. 2015. Predicting shifts in northern bobwhite and scaled quail distribution from climate change. Joint Meeting of the Oklahoma Chapter of the American Fisheries Society and the Oklahoma Wildlife Society, Tulsa, Oklahoma.
- Tanner, E. P., R. D. Elmore, C. A. Davis, and S. D. Fuhlendorf. 2014. Impacts of artificial surface water sources on northern bobwhite and scaled quail populations. 68th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. Destin, Florida.
- Tanner, E. P., R. D. Elmore, C. A. Davis, S. D. Fuhlendorf, and E. T. Thacker. 2013. Comparative ecology of northern bobwhite and scaled quail in a sand sagebrush community. 67th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. Oklahoma City, Oklahoma.
- Tanner, E. P., R. D. Elmore, C. A. Davis, S. D. Fuhlendorf, and E. T. Thacker. 2013. Habitat use, survival, and movements of northern bobwhite and scaled quail in western Oklahoma. Oklahoma Department of Wildlife Conservation Annual Technical Meeting. Stillwater, Oklahoma.
- Tanner, E. P., R. D. Elmore, C. A. Davis, S. D. Fuhlendorf, and E. T. Thacker. 2012. Breeding season ecology of northern bobwhite and scaled quail in the sand sagebrush community. Oklahoma Wildlife Society Meeting, Tall Grass Prairie Preserve, Oklahoma.
- Unger, A.M., S.D. Fuhlendorf, R.D. Elmore, C.A. Davis., and M. Papes. 2015. A Maximum entropy approach to modeling lesser prairie-chicken habitat. 2015 Oklahoma Natural Resources Conference, Tulsa, Oklahoma, USA.
- Orange, J.P., C.A. Davis., S.D. Fuhlendorf, R.D. Elmore, and E.P. Tanner. 2015. Survival, movement, and habitat use of northern bobwhite and scaled quail chicks at the periphery of their distributional ranges. 2015 Oklahoma Natural Resources Conference, Tulsa, Oklahoma, USA.
- Limb, R., I. Williams, S.D. Fuhlendorf, R.D. Elmore, and J. Weir. 2015. Are sagebrush ecosystems fire sensitive? 2015 Annual Meeting of the Society for Range Management, Sacramento, California, USA.
- Hovick, T.J, R.D. Elmore, and S.D. Fuhlendorf. 2015. Avian diversity and stability along a fire and grazing dependent heterogeneity gradient. 2015 Annual Meeting of the Society for Range Management, Sacramento, California, USA.
- Engle, D.M., J.D. Carlson, E.S. Krueger, D. Twidwell, T. Ochsner, S.D. Fuhlendorf, C. Bielski, S. Sharma, and A. Patrignani. 2015. Studies of Grassland Fuel Dynamics in a Variable Environment. Society for Range Management 68<sup>th</sup> Annual Meeting, Sacramento, California. January 31-February 6, 2105.
- Hovick, T.J, R.D. Elmore, and S.D. Fuhlendorf. 2014. Avian diversity and stability along a fire and grazing dependent heterogeneity gradient. 2015 Joint Meeting of the American Ornithological Union, Cooper Ornithological Society, and the Society of Canadian Ornithologists. Estes Park, Colorado, USA.
- Orange, J.P., C.A. Davis., S.D. Fuhlendorf, R.D. Elmore, and E.P. Tanner. 2014. Extra-Pair Paternity, Intra-specific Nest Parasitism, and Brood Amalgamation in Northern Bobwhite Quail. Oklahoma Chapter of the Wildlife Society. Oklahoma City, Oklahoma, USA.
- Tanner, E.P., R.D. Elmore, C.A. Davis, and S.D. Fuhlendorf. 2014. Comparative ecology of northern bobwhite and scaled quail on distribution extremes. Oklahoma Chapter of the Wildlife Society. Oklahoma City, Oklahoma, USA.
- Hovick, T.J., R.D. Elmore, S.D. Fuhlendorf, D.M. Engle, and R.G. Hamilton. Spatial Heterogeneity Increases Diversity and Stability in Grassland Bird Communities. 2014. American

- Ornithologists' Union/Cooper Ornithological Society/Society of Canadian Ornithologists joint meeting. Estes Park, Colorado, USA.
- Leverkus, S., M. Geertsema, S. Fuhlendorf, R.D. Elmore, D. Engle, and K. Baum. 2014. Conserving biodiversity through shifting mosaics. Canadian Wildland Fire Conference Annual Meeting, Nova Scotia, Canada.
- Orange, J.P., C.A. Davis, R.A. Van Den Bussche, R.D. Elmore, and S.D. Fuhlendorf, J.M. Carroll, and E.P. Tanner. 2014. Parasitism, paternity, and brood mixing in two sympatric quail species. 2014 Annual Meeting of the Southeastern Association of Fish and Wildlife Agencies. Destin, Florida, USA.
- Carroll, M.J., C.A. Davis, R.D. Elmore, and S.D. Fuhlendorf. 2014. Thermal environment as a constraint on movement and habitat use of northern bobwhite broods on the western periphery of their distribution. 2014 Annual Meeting of the Southeastern Association of Fish and Wildlife Agencies. Destin, Florida, USA.
- Tanner, E., R.D. Elmore, C.A. Davis, and S.D. Fuhlendorf. 2014. Use of water by quail in western Oklahoma. 2014 Annual Meeting of the Southeastern Association of Fish and Wildlife Agencies. Destin, Florida, USA. Scasta, J.D., S.D. Fuhlendorf, D.M. Engle, D.D. Redfearn, T.G. Bidwell. 2014. Are exotic forages designer invasive plants? A systematic review and meta-analysis. Society for Range Management Annual Meeting. Orlando, FL, February 12, 2014.
- Fuhlendorf, S.D. 2013. Ecology and Management of Juniper in the Great Plains. In : Workshop-The Problem with Junipers in the Great Plains and Central US. Society for Range Management Annual Meeting. Orlando, FL, February 12, 2014.
- Smith, B. and S. D. Fuhlendorf. Fire and Grazing Management on Select Butterfly Host Plants in Southeast Nebraska. Midwest Fish and Wildlife Conference. January 26-29. Kansas City, Missouri.
- Smith, B. and S. D. Fuhlendorf. Obligate Grassland Bird Response to Woody Vegetation in the Context of Patch-Burn Grazing. Midwest Fish and Wildlife Conference. January 26-29. Kansas City, Missouri.
- Breland, A., R.D. Elmore, and S.D. Fuhlendorf. Effects of prescribed fire on the black-tailed prairie dog. 2013 Annual Meeting of the Southeastern Association of Fish and Wildlife Agencies. Oklahoma City, Oklahoma, USA.
- Hovick, T.J, R.D. Elmore, and S.D. Fuhlendorf. 2013. Fire and grazing influence habitat use and abundance of overwintering birds. Joint Meeting of American Ornithologists' Union and Cooper Ornithological Society. Chicago, Illinois, USA.
- Hovick, T.J, B.W. Allred, R.D. Elmore, D.K. Dahlgren, S.D. Fuhlendorf, and D.M. Engle. 2013. Grassland heterogeneity may moderate thermal extremes for the imperiled greater prairie chicken. Ecological Society of America Annual Meeting. Minneapolis, Minnesota, USA.
- Hovick, T.J, R.D. Elmore, D.K. Dahlgren, S.D. Fuhlendorf, and D.M. Engle. 2013. Impacts of anthropogenic structures on grouse (poster). 30<sup>th</sup> Meeting of the Prairie Grouse Technical Council. Crookston, Minnesota, USA.
- Hovick, T.J, B.W. Allred, R.D. Elmore, and S.D. Fuhlendorf. 2013. Investigation of thermal habitat selection by greater prairie-chickens. 30<sup>th</sup> Meeting of the Prairie Grouse Technical Council. Crookston, Minnesota, USA.
- Hovick, T.J, R.D. Elmore, D.K. Dahlgren, and S.D. Fuhlendorf. 2012. Research and Status of Greater Prairie-Chickens in the Flint Hills. Oklahoma Joint Meeting of The Wildlife and Rangeland Societies. Bartlesville, Oklahoma, USA.

- Hovick, T.J., R.D. Elmore, and S.D. Fuhlendorf. 2012. Grassland Bird Diversity along a Heterogeneity Gradient. Patch-burn Grazing Working Group Annual Meeting. Elmdale, Kansas, USA.
- Tanner, E., R.D. Elmore, S.D. Fuhlendorf, and C.A. Davis. 2012. Breeding Season Ecology of Northern Bobwhite and Scaled Quail in a Sand Sagebrush Community. Annual Meeting of the Oklahoma Chapter of The Wildlife Society, Bartlesville, Oklahoma, USA.
- Hovick, T.J., R.D. Elmore, D.K. Dahlgren, and S.D. Fuhlendorf. 2012. Influence of Heterogeneity on Greater Prairie-Chickens (poster). Annual Meeting of The Wildlife Society, Portland, Oregon, USA.
- Hung, J, C Zou, D. Turton, R Will, D Engle, S Fuhlendorf. 2011. Effects of vegetation and soil interactions on temporal soil water dynamics. Ecological Society of America Annual Meeting, Austin Texas.
- Samuel D. Fuhlendorf, David M. Engle, R. Dwayne Elmore, Terrence G. Bidwell. 2010. Contrasting Conservation Management and Commodity Management of Privately Owned Rangeland. **Symposium:** Conservation Management on Private Rangelands. Society for Range Management Annual Meeting. Denver Colorado. February 8, 2010.
- Devan McGranahan*, David Engle, Samuel Fuhlendorf, James Miller, Diane Debinski. 2010. Grazing history, soil carbon, and invasion by an exotic cool-season grass explain extraordinary community diversity in a working prairie landscape Society for Range Management Annual Meeting. Denver Colorado. February 8, 2010.
- Ryan Limb*, Samuel Fuhlendorf, Jay Kerby. 2010. Growing season fires in warm-season prairie: Are the effects greater than herbivory?
- Devan McGranahan*, David Engle, Samuel Fuhlendorf, James Miller, Diane Debinski. 2010. An invasive grass creates fuelbed heterogeneity and reduces fire intensity
- Samuel Fuhlendorf*, David Engle, Chris Zou, Rodney Will. 2010. Grassland to woodland transitions in the southern Great Plains: How do we quantify these dynamics? **Symposium:** Applying State and Transition Models across Diverse Ecoregions. Society for Range Management Annual Meeting. Denver Colorado. February 10, 2010.
- Samuel Fuhlendorf*, R. Dwayne Elmore, Robert Hamilton, Terry Bidwell, Amber Breland. 2010. Management for mosaics to promote greater and lesser prairie chickens. **Symposium:** Management of Lekking Bird Habitat. Society for Range Management Annual Meeting. Denver Colorado. February 10, 2010.
- Fuhlendorf S, Wilcox B, Will R, Engle D, Zou CB. 2009. Grassland to woodland transitions: Linking hydrology and vegetation dynamics. 62nd Society for Range Management Annual Meeting. February 8-12, 2009. Albuquerque, New Mexico.
- Fuhlendorf, SD, DM Engle, R. Limb, R. Miller. 2009. Assessment of Prescribed Fire as a Conservation Practice. 62nd Society for Range Management Annual Meeting. February 8-12, 2009. Albuquerque, New Mexico.
- Wu, B, B. Besteolmeyer, J Brown, S Fuhlendorf 2009. Assessment of the landscape aspects of conservation practices. 62nd Society for Range Management Annual Meeting. February 8-12, 2009. Albuquerque, New Mexico.
- Allred, BW, R. Limb, S. Fuhlendorf, B. Hamilton. 2009 Pyric-Herbivory and Patch Burning: What About Number and Size? 62nd Society for Range Management Annual Meeting. February 8-12, 2009. Albuquerque, New Mexico.
- Fuhlendorf, S.D., DM Engle, R Limb. 2008. Fire and resilience from a biodiversity perspective: the role of spatial and temporal heterogeneity. Symposium: Ecosystem resilience and fire:

- ecological and management perspectives. Pacific Coast Fire Conference: Changing Fire Regimes, Goals and Ecosystems. December 1-4, 2008. San Diego California.
- Fuhlendorf, S.D. 2008. Restoration of evolutionary fire-grazing interactions to limit invasion of exotic forages in the central grasslands. Organized Session: Biology of Weedy and Invasive Species in Agroecosystems: Case Studies. Ecological Society of America, Annual Meeting. August 3 – 8 2008. Milwaukee, Wisconsin.
- Fuhlendorf, S.D. and K.R Hickman. 2008. Biodiversity and Invasive species: Challenges and opportunities for rangeland research. Symposium: Current Ecological Issues in Grassland Science. Society for Range Management Annual Meeting. Louisville, Kentucky, January 26-February 1, 2008.
- Fuhlendorf, S.D., S. Leis, R. Moranz. 2008. Is patch burning a silver bullet for conservation of rangelands? Challenges, opportunities and future directions. Symposium: Use of heterogeneity-based grassland management techniques for improved wildlife habitat: What does it look like? Society for Range Management Annual Meeting. Louisville, Kentucky, January 26-February 1, 2008.
- Winter, S.L., S.D. Fuhlendorf, C.A. Davis, D. Leslie. 2008. Heterogeneity in Sand Sage Prairie: the influence of fire and grazing in an already heterogeneous landscape. Society for Range Management Annual Meeting. Louisville, Kentucky, January 26-February 1, 2008.
- Twidwell, D., S. Fuhlendorf, D.M. Engle, C.A. Taylor. 2008. Evaluating critical variables in summer fire behavior. Society for Range Management Annual Meeting. Louisville, Kentucky, January 26-February 1, 2008.
- Limb, R., D.C. Cummings, S.D. Fuhlendorf, D.M. Engle. 2008. That of the SRM: are we relevant to Science? Society for Range Management Annual Meeting. Louisville, Kentucky, January 26-February 1, 2008.
- Allred, B, S. Fuhlendorf, and T. Monaco. 2008. Comparative physiology of the invasive forb *Lespedeza cuneata*. Society for Range Management Annual Meeting. Louisville, Kentucky, January 26-February 1, 2008.
- Walker, N.R., S. Fuhlendorf, and S.M. Marek. 2007. Assessing the biodiversity of fungi inhabiting native grass roots. International Congress of Plant Pathology.
- Cummings, D.C., S.D. Fuhlendorf, K.R. Hickman, and D.M. Engle. 2007. The altered grazing selectivity hypothesis: a management option for exotic invasive forage species. Society for Range Management Annual Meeting, Reno, NV.
- Moranz, R., S. Fuhlendorf, and D.M. Engle. 2007. Effects of patch-burn grazing on butterflies in tallgrass prairie. Society for Range Management's annual meeting, February 15, 2007, Reno, Nevada.
- Moranz, R., S. Fuhlendorf, and D. M. Engle. 2006. The effects of fire and grazing on butterfly abundance in tallgrass prairie. U.S. EPA Graduate Fellowship Conference, September 25, 2006, Washington, D.C.
- Moranz, R., S. Fuhlendorf, and D.M. Engle. 2006. The effects of fire and grazing regimes on tallgrass prairie vegetation in northern Oklahoma. Ecological Society of America's annual meeting, August 9, 2006, Memphis, Tennessee.
- Kerby, J., D. Engle, S. Fuhlendorf. 2005. Spatial variation of fire behavior on simulated grassland mosaics. Ecological Society of America Annual meeting, Montreal, Canada.
- Cummings, D.C., S. Fuhlendorf, D.Engle. 2005. Invasive *Lespedeza cuneata* dynamics at multiple spatial scales as influenced by dominant disturbances on rangelands. Ecological Society of America Annual meeting, Montreal, Canada.

- Russell, R., S. Wood, S. Fuhlendorf, E. Muldavin, I. Woiwod. 2005. Why empirical tests of theory mandate more attention to ecological context: Using local versus regional drivers of local species richness as a case-study. Organized Oral Session 53: Days to decades and meters to miles: Exploring community dynamics across scales, taxa, and habitats. Ecological Society of America Annual meeting, Montreal, Canada. August 7-13, 2005.
- Woiwod, I, D. Currie, S. Fuhlendorf, U. Gaedke, J. Houlahan, and T. Willis 2005. A test of the 'neutral model' assumption of stochastic zero-sum communities. Organized Oral Session 53: Days to decades and meters to miles: Exploring community dynamics across scales, taxa, and habitats. Ecological Society of America Annual meeting, Montreal, Canada. August 7-13, 2005.
- Cumming, G., J. Houlahan, S. Fuhlendorf. 2005. Linking spatial and temporal variability: Do dynamic feedbacks exist? Organized Oral Session 53: Days to decades and meters to miles: Exploring community dynamics across scales, taxa, and habitats. Ecological Society of America Annual meeting, Montreal, Canada. August 7-13, 2005.
- Cottenie, K., E. Morgan, S. Fuhlendorf, R. Stevens, 2005. Dispersal through time: Temporal metacommunity dynamics of annual desert plant communities. Organized Oral Session 53: Days to decades and meters to miles: Exploring community dynamics across scales, taxa, and habitats. Ecological Society of America Annual meeting, Montreal, Canada. August 7-13, 2005.
- Harrell, Wade C., Samuel D. Fuhlendorf, David M. Engle, and Robert Hamilton. 2004. Importance of management-imposed heterogeneity for grassland bird conservation. Grassland Bird Symposium The Wildlife Society annual meeting September 2004 Calgary, Canada.
- Churchwell, R.T., C.A. Davis, S.D. Fuhlendorf and D.M. Engle. 2004. Grazing and fire interactions and their influence on demographics of grassland birds of tallgrass prairie. Cooper Ornithological Society Annual Meeting.
- Engle, D., S.D. Fuhlendorf, T.G. Bidwell, J. Weir, T. Tunnell, and R. Hamilton. 2003. Managing grasslands for multiple objectives using prescribed fire. In: Abstracts of Papers. 2nd International Wildland Fire Ecology and Fire Management Congress. Orlando, Florida.
- Churchwell, R., C.A. Davis, S. D. Fuhlendorf, and D.M. Engle. 2003. The Role of Heterogeneity in Grassland Bird Productivity at the Tallgrass Prairie Preserve, Oklahoma: a First Year Look. Oklahoma Academy of Science Annual Meeting, Sherman Texas.
- Harrell, Wade C., Samuel D. Fuhlendorf, David M. Engle, and Robert Hamilton. 2003. Increasing grassland heterogeneity with fire and grazing: Implications for grassland birds. Ecological Society of America 88th annual meeting August 2003 Savannah, GA.
- Harrell, Wade C., Samuel D. Fuhlendorf, David M. Engle, and Robert Hamilton. 2003. Effects of increasing spatial heterogeneity on a grassland bird community. Oklahoma Section of The Wildlife Society Annual meeting February 2003. Stillwater, OK.
- Bell, L.A., S.D. Fuhlendorf, M.A. Patten, S.S. Sherrod, D.H. Wolfe. 2003. Brood Survivorship in relation to microclimate/habitat use of Lesser Prairie Chickens. Prairie Grouse Technical Council Annual Meeting. Garden City Kansas.
- Shaver, J.M., J.A. Hattey, S.D. Fuhlendorf, and D.D. Redfearn. 2003. Putting Assessment Data to Work. Agronomy Society of America Annual Meeting. Denver, CO.
- Fuhlendorf, S.D. and D.M. Engle. 2003. Multi-scale indicators for conservation of grassland avifauna: heterogeneity vs. fragmentation. **Symposium:** Rangeland Birds. Wyoming Audubon. Society for Range Management Annual Meeting, Casper Wyoming.
- Vermeire, L.T., R.B. Mitchell, S.D. Fuhlendorf. 2003. Prescribed Fire Effects On Grasshopper Assemblages In The Southern Plains. Society for Range Management Annual Meeting, Casper Wyoming.



- Vermeire, L.T., R.B. Mitchell, S.D. Fuhlendorf. 2003. Control Of Rangeland Grasshoppers Using Prescribed Fire. Society for Range Management Annual Meeting, Casper Wyoming.
- Fuhlendorf, S.D. 2002. Fire, Grazing and Landscape Ecology. **Forum Topic:** Fire Ecology and Management on Central and Southern Great Plains Rangelands. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Coppedge, B.R., D.M. Engle, and S.D. Fuhlendorf, R.E. Masters, and M.S. Gregory. 2002. Assessing the effects of landscape fragmentation on grassland birds in the Southern Great Plains. **Symposium:** Landscape Analysis for Rangeland Assessment and Monitoring. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Archer, S.R., S.D. Fuhlendorf, J.C. Scanlan, and F.E. Smeins. 2002. Beyond boxes and arrows: approaches for quantifying state transitions. **Forum Topic:** It Keeps Changing: Using State and Transition Models to Manage Rangelands in the Face of Biological Invasions. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Engle, D.M., S.D. Fuhlendorf, and B.R. Coppedge. 2002. Habitat restoration in fragmented Great Plains landscapes. Program and Abstracts. The Wildlife Society 9th Annual Conference. Bismarck, ND.
- Vermeire, L.T., R.B. Mitchell, and S.D. Fuhlendorf. 2002. Patch burning effects on cattle distribution in sand sagebrush rangelands. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Townsend, III, D.E. and S.D. Fuhlendorf. 2002. What is grassland habitat structure: exploring the role of temperature and predation. Society for Range Management Annual Meeting, Kansas City, Missouri.
- O'Meilia, C.M., D.M. Engle, and S.D. Fuhlendorf. 2002. Herbicide effects on invertebrate and plant communities in an ecosystem dominated by *Lespedeza cuneata*. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Yoder, J. M. Tilley, D.M. Engle, and S.D. Fuhlendorf. 2002. An economic perspective of liability for prescribed burning. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Kerby, J.D., D.M. Engle, S.D. Fuhlendorf. 2002. Patch-level foraging paths of bison and cattle on tallgrass prairie. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Ganguli, A. C., D. M. Engle, and S. D. Fuhlendorf. 2002. When does a native species become invasive? Society for Range Management Annual Meeting, Kansas City, Missouri.
- Harrell, W.C., S.D. Fuhlendorf, D.M. Engle, and R. Hamilton. 2002. Influences of patch burning and cattle grazing on songbirds in tallgrass prairie. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Ganguli, A. C., D. M. Engle, S. D. Fuhlendorf, and P. M. Mayer. Conservation programs that promote invasive species. Ecological Society of America 55<sup>th</sup> Annual Meeting. Tuscon, Arizona p135, August 4-9, 2002.
- Roper, A.W., D.M. Engle, and S.D. Fuhlendorf. 2002. Influences of a Rotational Patch-Burn Land Management System on the Insect Community in a Tallgrass Prairie Ecosystem. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Tunnell, T.R., S.D. Fuhlendorf, D.M. Engle, and J.R. Weir. 2002. Patch Burning: Effects on livestock performance and habitat in Tallgrass prairie. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Puckett, Jr. W.H., F.S. Guthery, S.D. Fuhlendorf, S.G. Smith and R.A. Baker. 2002. Winter habitat use of bobwhites in a high plains steppe. Society for Range Management Annual Meeting, Kansas City, Missouri.

- Smith, S.G. F.S. Guthery, S.D. Fuhlendorf and W.H. Puckett Jr. 2002. Nesting Behavior of the Northern Bobwhite in Relation to the Thermal Environment. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Puckett, Jr. W.H., F.S. Guthery, S.D. Fuhlendorf and S.G. Smith. 2002. Effects of simulated grazing and rainfall on the thermal environment of northern bobwhites. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Baker, R.A., S.D. Fuhlendorf, F.S. Guthery and W.H. Puckett Jr.. 2002. Harvest management of northern bobwhites on a north Texas ranch. Society for Range Management Annual Meeting, Kansas City, Missouri.
- Harrell, W.C., S.D. Fuhlendorf, D.M. Engle, and R. Hamilton. 2002. Effects of patch burning management on grassland birds in Tallgrass Prairie. Oklahoma Ornithological Society. Claremore OK.
- Coppedge, B., D. Engle, S. Fuhlendorf, R. Chapman, M. Gregory, and R. Masters. 2002. Juniper encroachment and avifaunal dynamics in southern Great Plains grasslands. Oklahoma Ornithological Society. Claremore OK.
- Harrell, W.C., S.D. Fuhlendorf, D.M. Engle, and R. Hamilton. 2001. Effects of alternative prairie management on grassland birds. Oklahoma Section of Society for Range Management Annual Meeting, Stillwater Oklahoma.
- Townsend III, D.E., and S.D. Fuhlendorf. 2001. Thermal Heterogeneity of Mixed Grass Prairie: Importance of Structure, Grazing, and Topographic Position. Southwestern Association of Naturalists, Annual Meeting. Hays, KS.
- Harrell, W.C. and S.D. Fuhlendorf. 2001. Historical and current changes in sand shinnery oak community structure and composition in relation to fire. Southwestern Association of Naturalists, Annual Meeting. Hays, KS.
- Suedkamp Wells, K , J.J. Lusk, F. S. Guthery, and S. D. Fuhlendorf. 2001. Lark Sparrow nest -site selection and success in a southern mixed-grass prairie. 119th meeting of the American Ornithologists' Union, Seattle, WA 16--18 August 2001.
- Lusk, J. J., K.M. Suedkamp, F.S. Guthery, and S.D. Fuhlendorf. 2001. Factors affecting nest success of lark sparrows (*Chondestes grammacus*) in a southern mixed-grass prairie. 71st Annual Meeting of the Cooper Ornithological Society, Albuquerque, New Mexico USA. 20 April 2001
- Suedkamp, K.M., F.S. Guthery, and S.D. Fuhlendorf. 2001. Effects of temperature on nest site selection of grassland birds. The Wildlife Society, National Meeting.
- Suedkamp, K.M., J.J. Lusk, F.S. Guthery, and S.D. Fuhlendorf. 2001. What factors influence nest-site selection in lark sparrows (*Chondestes grammacus*) in a southern mixed-grass prairie. 71st Annual Meeting of the Cooper Ornithological Society, Albuquerque, New Mexico USA. 20 April 2001
- Vermeire L.T., R.B. Mitchell, S.D. Fuhlendorf, and R.L.Gillen 2000. Sand Sagebrush Response to Fall and Spring Prescribed Burns. 11<sup>th</sup> Annual Wildland Shrub Symposium, Shrubland Ecosystem Genetics and Biodiversity. Shrub Research Consortium, Brigham Young University, Provo, Utah.
- Woodward, A.J.W. and S.D. Fuhlendorf. 2000. Measuring landscape heterogeneity: relationships between landscape structure and lesser prairie-chicken population trends. Society for Range Management, Annual Meeting, Boise, Idaho.
- Fuhlendorf, S.D. and D.M. Engle. 2000. Management of grazing for heterogeneity on Great Plains rangelands. Society for Range Management, Annual Meeting, Boise, Idaho.

- Suedkamp, K.M, F.S. Guthery, and S.D. Fuhlendorf 2000. Effects of thermal loading on nest microclimates of ground-nesting birds. Ecological Society of America- Annual Meeting, Snowbird Utah.
- Suedkamp, K.M, F.S. Guthery, and S.D. Fuhlendorf 2000. Effects of grazing on the thermal environment of grassland birds. Society for Conservation Biology, Annual Meeting, Missoula, Montana.
- Woodward, A.J., S.D. Fuhlendorf and D.M. Leslie. 1999. Landscape-level evaluation of the impacts of land-use on lesser prairie chicken habitat. The Wildlife Society, National Meeting, Austin, Texas.
- Harrell, W.C. and S.D. Fuhlendorf. 1999. Habitat evaluation of Sand Shinnery Communities in relation to prescribed burning: Implications for Lesser Prairie Chickens. The Wildlife Society, National Meeting, Austin, Texas.
- Fuhlendorf, S.D. and D.M. Engle. 1999. Management of grazing for heterogeneity on rangeland landscapes. International Association of Landscape Ecologists, Annual Meeting, Vail, Colorado.
- Fuhlendorf, S.D. 1999. Hierarchical influences of grazing on plant species diversity. Society for Range Management, Annual Meeting, Omaha Nebraska.
- Woodward, A.J., S.D. Fuhlendorf and D.M. Leslie. 1999. Landscape-level evaluation of the impacts of land-use on lesser prairie chicken habitat. Society for Range Management, Annual Meeting, Omaha Nebraska.
- Fuhlendorf, S.D. and D.M. Engle. 1998. Landscape ecology and the management of rangelands: Past lesson and future prospects. International Association of Landscape Ecologists, Annual Meeting. Lansing, Michigan.
- Fuhlendorf, S.D., F.E. Smeins, and D.D. Briske. 1998. Herbaceous vegetation change in a semi-arid savanna: Is grazing or climate variability the primary change agent? Society for Range Management. Annual Meeting. Guadalajara, Mexico.
- Bodine, T.N., H.T. Purvis, S.D. Fuhlendorf, G.W. Horn, R.L. Gillen, F.T. McCollum and B.K. Karges. 1998. Effects of grazing and stocking rate on performance of summer stocker cattle grazing tallgrass prairie. American Society of Animal Science, Annual Meeting, Denver Colorado.
- Fuhlendorf, S.D. 1997 Influences of variable grazing, weather and fire patterns on vegetation dynamics: Long-term lessons from west-central Texas. Oklahoma Section of the Society for Range Management. Annual Meeting. Stillwater, Oklahoma.
- Fuhlendorf, S.D., F.E. Smeins, and S.R. Archer 1997. Transition intervals in Markov succession models: a quantitative assessment. Ecological Society of America, Annual Meeting. Albuquerque, New Mexico.
- Smeins, F.E. and S.D. Fuhlendorf 1997. Long-term herbivory and weather driven dynamics within grassland patches of a juniper/oak savanna. Ecological Society of America, Annual Meeting. Albuquerque, New Mexico.
- Fuhlendorf, S.D. and F.E. Smeins 1996. Multi-scaled influence of herbivory on graminoid diversity of a semi-arid grassland. International Association of Landscape Ecologists, Annual Meeting. Galveston, Texas.
- Fuhlendorf, S.D. and F.E. Smeins 1995. Simulation of a fire-sensitive ecological threshold: Temporal dynamics of Ashe juniper. Symposium. American Institute of Biological Sciences, Invited Symposium on Ecological Modeling. San Diego, California.
- Fuhlendorf, S.D. and F.E. Smeins 1995. Importance of scale on long term temporal vegetation patterns following removal of domestic herbivory. International Association of Vegetation Science, Annual Meeting. Houston, Texas.

Fuhlendorf, S.D., F.E. Smeins, and E.J. Rykiel 1994. Influence of scale on vegetation dynamics of a semi-arid grassland community. Ecological Society of America, National Meeting. Knoxville, Tennessee.

Fuhlendorf, S.D., and F.E. Smeins 1993. Influence of size and grazing history on understory relationships of Ashe juniper. Society for Range Management , National Meeting. Albuquerque, New Mexico.

Fuhlendorf, S.D., and F.E. Smeins 1993. Age/size relationships of Ashe juniper as influenced by grazing history and tree size. Society for Range Management, National Meeting. Albuquerque, New Mexico.

Fuhlendorf, S.D., and F.E. Smeins 1991. Influence of grazing history on understory relationships of Ashe juniper. Southwestern Association of Naturalists, Annual Meeting. Junction, Texas.

### ***Peer-reviewer for journals and proposals while at OSU***

#### *Journals*

African Journal of Range and Forage Sci.	International Rangeland Congress
Agriculture, Ecosystems & Environment	International Journal of Wildland Fire
American Midland Naturalists	Journal of Arid Environments
Applied Vegetation Science	Journal of Applied Ecology
Australian Journal of Ecology	Journal of Environmental Management
Biological Conservation	Journal of Range Management
Conservation Biology	Journal of Tropical Ecology
Conservation Ecology	Journal of Vegetation Science
Diversity and Distributions	Journal of Wildlife Management
Ecology	Landscape Ecology
Ecology Letters	Oecologia
Ecological Applications	Plant Ecology
Ecological Complexity	Restoration Ecology
Ecological Monographs	Southwestern Association of Naturalists
Ecological Modelling	Western Journal of Applied forestry
Fire Ecology	Wetlands
Forest Ecology and Management	Wildlife Society Bulletin
Freshwater Science	
Frontiers in Ecology and the Environment	

### ***Panel participation for national funding programs while at OSU***

USDA-NRI- Ecosystem Studies  
USDA-NRI – Invasive species  
USDA-NRI- Managed Ecosystems  
USDA- NIFA-AFRI- Management of Agro-ecosystems (Panel Manager)  
USDA-NIFA-AFRI- Ecological Thresholds (Panel Manager)  
USDA-NIFA-AFRI- Adaptation and Mitigation of Agriculture to Climate Change.

### ***Funding***

#### *Funded Proposals*

Elmore, R.D., T.J. Hovick, and S.D. Fuhlendorf, 2015. Determining the Impacts of Energy Development on Greater Prairie-Chickens. Lee Bass Ranches Foundation. \$50,000.

Fuhlendorf, S.D, Elmore, R.D. and S. Fraser. 2014-2016. Coyote Movement and Landscape Use on the Tallgrass Prairie Preserve. The Nature Conservancy. \$45,000.

Elmore, R.D. T.J. Hovick, and S.D. Fuhlendorf. 2013-2014. Determining the Impacts of Energy

Development on Greater Prairie-Chickens. The Nature Conservancy. \$100,000

Adapting Socio-ecological systems to increased climate variability. 2013. National Science Foundation- EPSCoR research Infrastructure Improvement Program: Track-2. \$20,000,000.00 for 5 years.

CNH: Slowing the Expansion of woodlands and increasing the resilience of grasslands in the southern Great Plains. 2014. Wilcox et al. Fuhlendorf one of 7 co-PIs. NSF- DEB- Dynamics of Coupled Human- Natural Systems. \$1,499,378 over three years.

Impacts of Fragmentation and Heterogeneity Resource Selection, Survival, and Recruitment of Lesser Prairie Chickens in Oklahoma. Elmore, R.D. S.D. Fuhlendorf, C.A. Davis, and M. Gregory. 2012-2015. Oklahoma Department of Wildlife Conservation. \$428,000.

Managing fuels while enhancing prairie chicken habitat. CoPI with Thacker, Twidwell, Elmore, Engle, Hovick. Joint Fire Sciences Program. 2013-2016. Joint Fire Sciences Program. \$274,218.

Evaluation of Northern Bobwhite in Western Oklahoma. Elmore, D, C Davis, S Fuhlendorf. Oklahoma Department of Wildlife Conservation. \$2.7 M over 6 years.

Climate Change Induced Shifts for Nonforested Plant Communities in the Western United States. Fuhlendorf, SD, B Allred, D Engle, D Elmore. 2012-2015. \$395,815 over three years. US Army Engineer Research and Development Center (ERDC) Broad Agency Announcement (BAA), the following proposal is submitted under the Natural Resources Stewardship (EL-21) Research Area

Development and evaluation of dynamic vegetation models for grassland fuels under variable fire and grazing regimes. Engle, DM, Calson, SD Fuhlendorf, TE Ochsner. 2011- 2015. Joint fire Sciences Program.

Sustaining rangelands in the southern Great Plains in the 21<sup>st</sup> century: Adapting and mitigating for climate change. B. Wilcox, S. Fuhlendorf, J. Briggs, D. Elmore, X. Ben Wu, S. Archer, W. Polley, C. Hart. USDA- AFRI Planning Grant. \$50,000 over 1 yr. 2010.

Role of rangeland heterogeneity in biodiversity, riparian stability, livestock production, and landowner landscape preference. USDA-AFRI-Managed Ecosystems. \$491,703 over 4 years. SD Fuhlendorf, DM Engle, D Elmore.

Eastern redcedar encroachment and water cycle in tallgrass prairie. USGS-State Water resource Research institute Program. 2009-2012. \$286,511. Zou, Chris, D. Engle, S. Fuhlendorf, D. Turton, R. Will.

Effects of Patch Burn Grazing on Biodiversity and Cattle Production in Eastern Nebraska. Nebraska Game and Parks Commission. 2009. SD Fuhlendorf. \$107,031.00 over 3 years.

Broader Implications of heterogeneous burning regimes in rangelands: potential for control of disease vectors and pollination services. USDA CSREES-NRI Managed Ecosystems. 2009. Baum, K., SD Fuhlendorf, M. Reichard. \$376,006 for 36 months.

Interactions between plant and soil ecosystems that regulate rangeland sustainability. USDA- Rangeland Research Program. 2009. S. Deng, SD Fuhlendorf, J Anderson. \$168,565 over 3 years.

Pyric-herbivory: Recoupling the fire-grazing interaction to restore fire and grazing dependent ecosystems. 2008. Fuhlendorf, SD, B. Allred. The Nature Conservancy. \$50,000 for 4 years.

Changes in populations associated with military training at national guard installations.

- U.S. Army Corps of Engineers, Construction Engineering Research Lab (CERL). 2008. Ryan Limb and SD Fuhlendorf. \$24,489 for one year.
- Invasive plant and soil fungi interactions on military installations: Mechanisms for establishment. \$7950. U.S. Army Corps of Engineers Construction Engineering Research Laboratory. 2008. R.F. Limb and S.D. Fuhlendorf.
- Restoration of evolutionary fire-grazing interactions to limit invasion of exotic forages in the central grasslands. USDA CSREES-NRI Biology of Weedy and Invasive Species in Agroecosystems. 2007. Fuhlendorf, S.D., K. Hickman, D. Engle, D. Debinski, J. Miller. \$500,000 over 4 years.
- Development of a Research and Demonstration Area for the Management and Conservation of Cross-Timbers and Prairie Ecosystems. 2006. Fuhlendorf, S.D. (PI) with 22 co-PIs. OSU-DASNR-Team Initiative Program. 35,000 over 2 years and 8 months.
- Patch Burn Management: Enhancing Habitat for Imperiled Grassland Bird Species. ODWC Special Projects. \$150,000 July 2005- December 2008. Fuhlendorf, S.D.(PI), D. M. Engle, C. A. Davis, D.M. Leslie, Jr.
- Patch Burning on Grasslands: Effects on Fuels, Fire Behavior, and Fire Spread. 2003. Joint Fire Sciences Program. Department of Interior and USDA Forest Service. Engle, D.M., S.D. Fuhlendorf, D.L. Nofziger, T.G. Bidwell. \$378,446 over 3 years.
- Fish and Wildlife Partners Collaborative Habitat and Internet Map Service with National Wildlife Project Registry. 2003. Wildlife Management Institute. S.D. Fuhlendorf and D.M. Leslie Jr. \$22,980 for 2003-2004
- Heterogeneity on Rangelands: Effects on Biodiversity and Productivity. USDA-NRICGP- 2003 Managed Ecosystems. Fuhlendorf, S.D.(PI), D. M. Engle, C. A. Davis, D.M. Leslie, Jr. \$340,000 over 4 years.
- Southwest Regional Partnership for Carbon Sequestration. US Department of Energy.- 2003. Brian McPherson (PI) New Mexico Institute of Mining and Technology. S.D. Fuhlendorf and D.L. Nofziger (Co-PIs) for OSU \$12,000.
- Ecology and Economics of Prescribed Fire Cooperatives. USFS- Southern Research Station. May 2003- October 2005. S.D. Fuhlendorf (PI), D.M. Engle, OSU Plant and Soil Sciences; David Lewis, OSU Forestry, J. Yoder, Washington State University- Dept. of Ag. and Resource Economics; C.A. Taylor Jr., TAMU, Rangeland Ecology and Management; J. Johnson, TAMU AGECON. \$84,175 for 2.5 years.
- Evaluating the shifting mosaic model of vegetation dynamics driven by a grazing-fire interaction. The Nature Conservancy, 2002-2006. S.D. Fuhlendorf (PI) and D.M. Engle, Tallgrass Prairie Preserve \$30,000 over 4 years.
- Landscape-level evaluation of the decline of northern bobwhite populations in central and eastern Oklahoma. 2002. Oklahoma Division of Wildlife Conservation. Fuhlendorf, S.D. (PI), F.S. Guthery, C. Davis, and D.M. Leslie. \$100,000 for 3 years.
- Restoring Heterogeneity of Tallgrass Prairie with Cattle Grazing and Fire: Applying the Bison/Fire Model to Domestic Livestock. 2001. The Nature Conservancy, S.D. Fuhlendorf (PI) and D.M. Engle, Tallgrass Prairie Preserve \$20,000 over 4 years
- Mesa Vista Project: Evaluating the thermal landscape of quail habitat. 2000. Funded by Boone Pickens. \$200,000 over 5 years. F.S. Guthery, S.D. Fuhlendorf (Co-PI), E.C. Hellgren, and D. Fisher,

Restoring native landscapes and rural economies: Native flora, native fauna, and native people. 2000. OAES-TRIP, D. Engle, S.D. Fuhlendorf (Co-PI) et al., \$40,000 over 2 years.

Factors affecting land use change in Western Oklahoma. 2000. OAES-TRIP, M. Dicks et al. Co-PI \$15,260 over 2 years.

Increasing efficiency and sustainability of Oklahoma beef production. 2000. OAES-TRIP, H. Purvis et al., Co-PI. \$40,000 over 2 years.

Manipulating cattle grazing patterns to enhance alternative enterprises on Oklahoma grasslands 1999. OAES-TRIP, Fuhlendorf et al. PI – \$30,000 over 2 years

Vegetation assessment of sand shinnery and sand sagebrush for lesser prairie chicken habitat. 1998. USDA- Forest Service; Black Kettle National Grassland. \$26,000 over 2 years. Sam Fuhlendorf and Terry Bidwell.

Grazing effects on vegetation, bobwhite quail and white-tailed deer. 1999. Kerr Foundation. Cooperator W. Olson - PI. \$7,500 over 2 years.

Characterization of protein fractions and digestibility of native and introduced forages of Oklahoma. 1998 OAES-TRIP, Co-PI \$36,500 over 2 years.

#### *Unfunded Proposals*

Sustaining Rangeland Production Systems in the Southern Great Plains. USDA-AFRI- CAP. B.P. Wilcox, S.D. Fuhlendorf, C. Hart, D. Briske, D. Elmore, J. Briggs, S. Archer, W. Polley. \$10,000,000.

Slowing the expansion of woodlands and increasing the resilience of grasslands in the southern Great Plains. NSF-Coupled Human and Natural Systems. Wilcox, Fuhlendorf et al.

Post-fire understory vegetation succession and surface fuel response in a forest-prairie ecotone. Joint Fire Sciences. S. Hallgren, D. Engle, S. Fuhlendorf, J. Weir. \$311,223

Development and evaluation of dynamic vegetation models for grassland fuels under variable fire and grazing regimes. Joint Fire Sciences Program. DM Engle, JD Carlson, SD Fuhlendorf, T. Ochsner, Mark Gregory, Tom Lynch.

Adapting the rangeland beef cattle industry to climate change in the Great Plains by managing for heterogeneity. USDA- AFRI planning grant. Co-PI with Dave Engle and others. \$50,000

Tallgrass Prairie: An at risk agro-ecosystem. EPA-G2008-STAR-K1. DM Engle, SD Fuhlendorf, CB Zou, R Will, JG Warren. \$496,552.00 over 4 years.

Prairie Dog response to fire and multi-faunal herbivory. 2008. Elmore, D. and S.D. Fuhlendorf. Welder Wildlife Foundation Fellowships. \$35,400 over two years.

Restoration of fragmented rangelands through large scale fire-grazing. Fuhlendorf, SD, D. Elmore, KR. Hickman. USDA-Rangeland Research Program. 2008. \$396,839 over 3 years.

Drivers in Plant and Soil Ecosystems that Regulate Rangeland Sustainability. 2007. Shipping Deng, Jeff Anderson, Sam Fuhlendorf and Mary Savin. USDA-Rangelands. \$454,442 over 3 years. USDA – Rangelands Program

Restoration of a fragmented rangelands through a large scale fire-grazing interaction. 2007. Sam Fuhlendorf, Karen Hickman, Dwayne Elmore Carmen Greenwood, John Weir. USDA-Rangelands. \$436, 329 over 4 years. USDA – Rangelands Program

Bomb Calorimeter. 2007. Raymond Huhnke, Sam Fuhlendorf, S.D. and Hailin Zhang. OSU-DASNR-Team Initiative Program. 40,000 over 2 years.

Assessing the Effects of Land Management Practices on Water Resources in the Cross Timbers Ecosystem in Oklahoma. 2007. Don Turton, Garey Fox, Sam Fuhlendorf, and Dan Storm. OSU-DASNR-Team Initiative Program. 35,000 over 2 years and 8 months.

Phenological niche separation and the encroachment of *Juniperus virginiana* into grasslands. National Science Foundation. PD 04-1128 07/09/06 DEB - ECOLOGICAL BIOLOGY CLUSTER. Rodney Will and Sam Fuhlendorf.

Leaf chemistry of Oaks in the cross timbers region and its effect on fire treatments. 2004. Joint Fire Sciences Program. Department of Interior and USDA Forest Service. John R. Weir, David M. Engle, Terrence G. Bidwell and Sam Fuhlendorf. \$319,301 over 3 years.

Heterogeneity and Stability on Rangelands: Is Complexity Fundamental to Sustainability? USDA-NRI Managed Ecosystems Program. 2005-2009. Fuhlendorf, S.D. (PI), D.M. Engle, and K. Hickman. \$468,178 over four years

The impact of Eastern Redcedar on land values and land use in the Southern Great Plains. Program of Research on the Economics of Invasive Species. Yoder, J, D.M. Engle, S.D. Fuhlendorf, J. \$499,391 over 3 years.

A<sup>2</sup> M<sup>2</sup>: Agroecosystems Analysis, Modeling, and Monitoring: A solution Network for Agricultural Sustainability. 2002. NASA Earth Science REASoN CAN (CAN-02-OES-01). Fuhlendorf (local PI)- \$234,633 over 5 years for OSU. MultiUniversity through UNL CALMIT- G. M. Henebry.

Ecological Risk Assessment for Managed Ecosystems. USDA-NRICGP- 2002 Managed Ecosystems. White, L., S.R. Archer, S.D. Fuhlendorf. \$448,397 over 3 years.

Ecological Risk Management: The Ecology & Economy of Natural Resource Sustainability. USDA-CSREES-Risk Management. 2001. White, L.D., S.R. Archer, S.D. Fuhlendorf. \$299,366 over 3 years. OSU portion \$27,191 over three years

Agricultural Alternatives for economically and ecologically fragmented rangeland. USDA-CSREES-IFAFS. 2001. J.K. Yoder, S.D. Fuhlendorf, D.M. Engle, M.D. Woods, J.H. Shaw, T.S. Carter, and P. Kenkel. \$1,503,977 over 4 years.

Developing a Series of Experiential Courses in Prescribed Burning of Rangelands. USDA-Higher Education Challenge Grant. 2001. D.M. Engle and S.D. Fuhlendorf. \$100,000 over 3 years.

Heterogeneity on Rangelands: Effects on Biodiversity and Productivity. USDA-NRICGP- 2000. Ecosystem Studies. Fuhlendorf, S.D. and D. M. Engle. \$246,507 over 4 years.

Alternative management of rangeland to promote heterogeneity for grassland birds. USGS-Species at Risk. Preproposal Fuhlendorf, S.D. and D.M. Engle. \$55,000 over 18 months

Spatio-spectral heterogeneity in grasslands: a cross-comparison of multi-, super-, and hyper-spectral rescaling and retrieval of canopy characteristics and ecosystem indicators. NASA-NRA-99-OES-01, Co-PI with G.M. Henebry and D.G. Goodin

Weed Control with 2, 4-D on Rangelands: Potential for an IPM Alternative. OSU-IPM Program. \$27,700.

An Advanced Multi-Resolution, Multi-Sensor Approach to Monitoring Rangeland Dynamics. USDA-NRI. \$98,000 over 3 years. Co-PI with G.M. Henebry and D.G. Goodin.

An Advanced Multi-Resolution, Multi-Sensor Approach to Monitoring Rangeland Dynamics.



NASA-NRA-98-OES-09. \$104,664.81 over 3 years, Co-PI with G.M. Henebry and D.G. Goodin.

Influences of Climate Change and Drought on Ecosystem Dynamics of the Mixed Grass Prairie. Environmental Institute, Center for Water Research. \$50,000 for 1 year. Co-PI with Anne Cross

Desertification Thresholds: Experimental Comparison of Grazing and Climatic Effects. NSF-Ecosystem Studies. \$332,786 for 3 years. Co-PI with Anne Cross

Sustainability of dominant management practices on Great Plains rangelands. 1998. DASNR-TRIP, Project Leader.

Black Kettle National Grassland landscape level habitat evaluation and management applications. 1998. National Fish and Wildlife Foundation, Project Leader.

Development of long-term experimental watershed to determine influence of vegetation and fire on water quality and quantity. 1998. DASNR-TRIP, Co-PI with D. Engle, D. Storm, and M. Smolen.

Bringing applied science to the urban-rural interface. 1998, CASNR-APEX. \$1,140. Co-PI with J.A. Hattey, K.J. Donnelly.

### ***Shortcourses and Workshops***

Patch Burning In Service for Extension and NRCS. Marvin Klemme Range Research Station. Bessie, OK. June 8, 2007.

Patch Burning In Service for Extension and NRCS. Tallgrass Prairie Preserve. Pawhuska, OK. June 4, 2007.

Tri-state Patch Burn Grazing workshop- Oklahoma, Missouri and Iowa. Clinton Missouri. June 11-13, 2007.

Fuhlendorf, S.D., B. Budd, J. Herrick. 2004. Is rangeland ecology relevant? Research needs for rangeland management in the 21<sup>st</sup> century. **Discussion:** Society for Range Management, Annual Meeting, Salt Lake City, Utah.

Ecological role of fires on prairies and shrublands. NRCS Fire Training School, Stillwater, Oklahoma. January, 2003

Ecological role of fires on prairies and shrublands. NRCS Fire Training School, Stillwater, Oklahoma. January, 2002

Patch Burning for Prairie Chickens. Prairie Grouse Technical Council Annual Meeting. Woodward Oklahoma. November 7, 2001.

Grazing and Bobwhite Quail. Oklahoma Division of Wildlife Conservation Field Day, Arnett OK, June 29, 2001.

Ecological role of fires on prairies and shrublands. NRCS Fire Training School, Stillwater, Oklahoma. January, 2001

Ecological role of fires on prairies and shrublands. NRCS Fire Training School, Stillwater, Oklahoma. January, 2000.

Landscape and community ecology of rangelands, Fire effects in prairie ecosystems, Technical Training Course for the USDA-Natural Resources Conservation Service, Fire and Ecosystem Management. 1999.

Hierarchical influences of grazing on plant species diversity. Society for Range Management, Annual Meeting, Omaha Nebraska. Special Session. 1999

Current Research and Tour of the Marvin Klemme Range Research Station. Field Day for the Oklahoma Forages and Grassland Council and Washita County Cattleman's Association. April 16, 1998.

Landscape and community ecology of rangelands, Fire effects in prairie ecosystems", Technical Training Course for the USDA-Natural Resources Conservation Service, Fire and Ecosystem Management. 1998.

Fire, grazing and climate effects on central Texas grasslands. University of Oklahoma, Botany Department Seminar, 1998.

Long-term importance of grazing, fire, and weather patterns on Edwards Plateau vegetation change." Oklahoma Section of the Society for Range Management. 1997.

### **Service and Other Professional Activities while at OSU**

#### *Oklahoma State University, Natural Resource Ecology and Management*

DASNR Faculty Council, NREM Representative 2011- present.  
Search and Screening Committee for Department Head 2015.  
Search and Screening Committee for Global Change position 2012.  
Chair of Search and Screening Committee for Ecohydrology Position 2008  
Member of Search and Screening Committee for Assistant Director of the Oklahoma Agricultural Experiment Station  
Chair of Search and Screening Committee for Rangeland Ecology and Management Position 2007  
Member of Search and Screening Committee for Department Head, 2007  
Graduate Committee Member, 2007-present  
Research Committee Chair, 2007  
Team Coordinator, Ecosystem Management, Conservation and Restoration Initiative Team 2007- 2014

#### *Oklahoma State University, Department of Plant and Soil Sciences*

Team Coordinator, Ecosystem Management, Conservation and Restoration Initiative Team 2005- 2006  
Undergraduate Student Awards and Scholarship Committee, 1998-Present  
Undergraduate Curriculum, Teaching and Recruiting Committee, 1998-Present  
Activities Committee, 1998-2004  
Graduate Student Organization, Advisor 1997-1998  
Range Club, Advisor 1997 - 2000  
Agroecosystem Science Disciplinary Panel, Chair 1997-1999  
Grazing Lands Management Disciplinary Panel, 1997-2003  
Department Homepage Working Group, 1997-1998  
Graduate Seminar Coordinator and Co-Coordinator 1997-1999, 2004- Present  
Undergraduate Advisor, 1997 - 2004  
Graduate Advisor, 1997- Present

#### *Other Activities and Services*

Serve as an Oklahoma representative on the Range-Wide Plan Science Team through Western Association of Fish & Wildlife Agencies  
Serve on the USFWS Lesser Prairie Chicken SSA committee  
Chair of the Society for Range Management Wildlife Habitat Committee 2016.

Liaison for the DASNR Faculty Council and the Division RPT committee 2015-current.

Severed on the Endangered Species and Economic Development Task Force. 2011-2012.

James Whatley Award Committee, 2006-2007

Conservation Effects Assessment Program, USDA, Fire Team Leader 2007-2010

SRM Task Force on Publications, 2004

Visiting Scientist. Eastern Oregon Agricultural Research Station, 2004

NRCS-OSU Prescribed Fire School, Instructor 1997-Present

Range Science Education Council, Awards committee 2001-2002

Environmental Sciences Steering Committee, Member 2000- Present

CASNR Excellence in Teaching Committee, Member 2001-Present

Range Science Education Council, Teaching Awards Committee 2001

Society for Range Management, Research Affairs Committee 1998-2000

Director of the Oklahoma Section of Society for Range Management, 1999-2001

Oklahoma Quail Initiative, Member 2001

Eastern Redcedar Initiative, Member 2001

CASNR, Effective Teaching Committee, 1998-Present

Environmental Science, Task Force 2000-present

Grassland Center of Excellence, Technical Advisory Council, Member 1998-1999

Society for Range Management, Research Affairs Committee, Member 1998-2000

Society for Range Management, OK Section, Awards committee 2000-2001

Society for Range Management, OK Section, Student Affairs committee 1999-present

Murray State University, Review of Agricultural Program, 1997-1999

4-H Range Camp, Instructor 1998-2000