

Tamzen K. Stringham, Ph.D.

Donna Anderson Endowed Professor

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EDUCATION

- Ph.D. Rangeland Resources Oregon State University, Corvallis 1996
Application of non-equilibrium theory to semi-arid riparian ecosystems.
- M.S. Agricultural and Resource Economics Oregon State University, Corvallis 1983
Simulation of National Cow Inventories and Calf Crop, 1965-1981: Projections to 1987.
- B.S. Economics, Minor: Agricultural Business California State University, Chico 1981

PROFESSIONAL EXPERIENCE

- 6-11 to date Full Professor, Donna Anderson Endowed Professorship in Grazing and Rangeland Management, Dept. of Agriculture, Nutrition & Veterinary Sciences, University of Nevada, Reno.
- 3-08 to 6-11 Associate Professor, Donna Anderson Endowed Professorship in Grazing and Rangeland Management, Dept. of Animal Biotechnology, University of Nevada, Reno.
- 7-06 to 2-08 Associate Professor, Rangeland Ecology & Management, Oregon State University, Corvallis, OR.
- 7-00 to 7-06 Assistant Professor, Rangeland Ecology & Management, Oregon State University, Corvallis, OR.
- 8-97 to 7-00 Research Associate, Rangeland Ecology & Management, Oregon State University, Corvallis, OR.
- 8-96 to 8-97 Riparian Specialist, 2LT Rangeland Consulting, Vernon, British Columbia, Canada.
- 8-96 to 1-97 Instructor, Forestry & Natural Resources, University College of the Cariboo, Kamloops, British Columbia, Canada.
- 9-93 to 6-96 Ph.D. Graduate Research Assistant, Rangeland Resources, Oregon State University, Corvallis, OR.
- 9-92 to 9-93 Range Economics Extension Assistant, Agricultural & Resource Economics, Oregon State University, Corvallis, OR.

CERTIFICATIONS

Certified Professional in Range Management #CP00-173, Society for Range Management. 2000 to date.

HONORS & RECOGNITION

USDA Secretary of Agricultural Honor Award: Interagency Ecological Site Team - 2013
Nominated for USDA, National Institute of Food and Agriculture Partnership Award: Innovative Programs and Projects – 2012
Society for Range Management Outstanding Achievement – Academia/Research 2010
Nominated for Outstanding Undergraduate Teacher in Range Science by student's within Oregon State University's Department of Rangeland Ecology & Management. 2005 and 2006
Outstanding Doctoral Student, Rangeland Resources, Oregon State University. 1995
Outstanding Doctoral Poster, Oregon State University Graduate Student Competition. 1996
Dillard H. and Anastasia M. Gates Graduate Scholarship in Range Management. 1994
Gamma Sigma Delta (Honor Society of Agriculture)
Omicron Delta Epsilon (Honor Society of Economics)
Phi Kappa Phi (National Scholastic Honor Society)

TEACHING & MENTORING

Courses Developed and Taught

Rangeland Restoration (NRES 498/698). Focus on restoration of rangelands utilizing an ecological process based approach incorporated with traditional rangeland improvement techniques.
Range Plant Systematics (ANSC 485/791). Introduction to plant systematics and taxonomic identification. Provided a basic understanding of plant classification and instruction on how to identify vascular plant families and many local plant species.
Range Management Exam Team (ANSC 280/480). Special topics preparing students for competition in the Society for Range Management Undergraduate Range Management Exam.
Rangeland Ecological Theory (RNG 663). Graduate level course covering the foundational rangeland ecological theory papers from the late 1800's to present day.
Wildland Restoration and Ecology (RNG 421/521). Formerly Range Improvements. Focus on process based restoration techniques, restoration and ranch level planning.
Riparian Ecology (RNG 555). Graduate level course focused on hands-on-application of techniques for assessment of riparian function and management.

Graduate Advisees and Service on Graduate Committees:

<u>Student</u>	<u>Graduation</u>	<u>Degree and Department</u>	<u>Role</u>
A. Overlin	2015	M.S., Natural Resources	Major Prof.
D. Snyder	2015	M.S., Ag., & Nutrition Sci.	Major Prof.
S. Lossing	2012 (completed)	M.S., Rangeland Ecology & Mgt.	Major Prof.
P. Shaver	2010 (completed)	Ph.D., Rangeland Ecology & Mgt.	Major Prof.
C. Matney	2010 (completed)	Ph.D., Rangeland Ecology & Mgt.	Major Prof.
E. Ersch	2009 (completed)	M.S., Rangeland Ecology & Mgt.	Major Prof.
J. Wiseman	2008 (completed)	M.S., Rangeland Ecology & Mgt.	Major Prof.
R. Leary	2008 (completed)	M.S., Rangeland Ecology & Mgt.	Major Prof.
M. Estes	2008 (completed)	M.S., Rangeland Ecology & Mgt.	Major Prof.
C. Mollanu	2008 (completed)	M.A., Rangeland Ecology & Mgt.	Major Prof.
S. Quistberg	2007 (completed)	M.S., Rangeland Ecology & Mgt.	Major Prof.
G. Gilbert	2006 (completed)	M.S., Rangeland Ecology & Mgt.	Major Prof.

<u>Student</u>	<u>Graduation</u>	<u>Degree/Dept</u>	<u>Role</u>
S. Petersen	2005 (completed)	Ph.D., Rangeland Ecology & Mgt.	Major Prof.
C. Matney	2004 (completed)	M.S., Rangeland Ecology & Mgt.	Major Prof.
C. Carr	2002 (completed)	M.S., Rangeland Ecology & Mgt.	Major Prof.
A. Dittrich	2013 (completed)	M.S. Hydrology	Committee
S. Noelle	2012 (completed)	M.S. Watershed Science	Committee
M. Bechtel	2012 (completed)	M.S. Animal Science	Committee
S. Lei	2011 (completed)	M.S., Animal Science	Committee
M. Freese	2009 (completed)	M.S., Rangeland Ecology & Mgt.	Committee
H. Craig	2009 (completed)	M.A., Rangeland Ecology & Mgt.	Committee
C. O'Connor	2008 (completed)	M.S., Rangeland Ecology & Mgt.	Committee
C. Carr	2007 (completed)	Ph.D., Rangeland Ecology & Mgt.	Committee
J. Wilson	2007 (completed)	Ph.D., Fisheries and Wildlife	Grad. Rep.
H. Marshall	2005 (completed)	Ph.D., Forest Engineering	Grad. Rep.
K. Lawson	2004 (completed)	M.S., Rangeland Ecology & Mgt.	Committee
J. Amann	2004 (completed)	M.S., Forest Eng./Biores.	Grad. Rep.
C. McArthur	2002 (completed)	M.S., Rangeland Ecology & Mgt.	Committee
B. Peterson	1999 (completed)	M.A., Rangeland Ecology & Mgt.	Committee
A. Laliberte	2000 (completed)	M.S., Rangeland Ecology & Mgt.	Committee

Teaching Evaluations

Term/Year	Course	Credits	No. of Students	Rating*
Fall 2004	RNG 421/521	4	20	6.0/5.0
Spring 2004	RNG 555	3	6	5.0
Fall 2005	RNG 421/521	4	29	5.8/6.0
Spring 2005	RNG 555	3	5	5.8
Fall 2006	RNG 421/521	4	18	5.8/5.6
Spring 2006	RNG 555	3	4	5.0
Spring 2006	RNG 663	2	10	5.3
Fall 2007	RNG 421/521	4	16	5.3/5.0
Spring 2007	RNG 555	3	4	6.0
Fall 2009	NRES 498/698	3	12	8.0/10.0
Fall 2009	ANSC 485/791	3	10	9.0/8.0
Fall 2009	ANSC 280/480	1	6	9.0/9.0
Fall 2010	NRES 498/698	3	6	9.0/10.0
Fall 2011	NRES 498/698	3	11	10.0/10.0

* Scale 0 to 6.0: 2004-2007; Scale 0 to 10.0: 2009-2010; #/# indicates ratings for undergraduate and graduate portions of classes

ADMINISTRATIVE RESPONSIBILITIES

Project Director – Porter Canyon Experimental Watershed. March 2009 to present. Project development, budgeting and funding; coordination of research experiments with collaborators including USDA Agricultural Research Service, USDI Bureau of Land Management, University of Nevada, Reno and private landowners. Investment to-date: \$1.3 million.

Director - Stringham Research Lab. Supervise and fund two rangeland ecologists, a research technician, multiple student employees and graduate students. Coordinate integrated research activities with USDA Agricultural Research Service, Natural Resource Conservation Service and USDI Bureau of Land Management. Develop project budgets, final reports, manuscripts and workshops. \$300,000 to \$400,000 annual budget.

PROFESSIONAL WORKSHOPS: Instructor

USDA Natural Resource Conservation Service. May 9, 2013. Webinar. Ecological Site Description Webinars: An Interdisciplinary and Interagency Effort. *Resilience Concepts in STMs, Understanding Disturbance Responses*.

USDA Natural Resource Conservation Service. February 2, 2013 . Oklahoma City, OK. Collaborative Ecological Site Development Training. Taught quality control for state-and-transition model development.

USDA Natural Resource Conservation Service. January 28, 2012. Spokane, WA. Ecological Site Description and State-and-Transition Model Development Technical Workshop. Taught process-based thinking and writing for state-and-transition model development.

USDA Natural Resource Conservation Service. January 30 – February 2, 2012. Using Ecological Site Descriptions as a Decision Making Tool Workshop. Taught development of state-and-transition model concepts.

USDA Natural Resource Conservation Service, Nevada. March 26-28, 2012. Reno, NV. Taught concepts of state-and-transition models for Major Land Resource Area 28A and 28B within Great Basin rangelands. Developed response matrix for individual ecological sites and draft models for ecological site response groups.

Interagency Ecological Site Applications Workshop. June 5-7, 2012. Winnemucca, NV. Workshop coordinator. Taught resilience concepts in state and transition models, led field component and taught riparian ecological site descriptions concepts.

Society for Range Management, Nevada Section. July 7-8, 2011. Reno, NV. Taught riparian ecological site descriptions for lotic systems and their application for management decisions.

Society for Range Management, Nevada Section. July 1, 2010. NV Agriculture Experiment Station, Gund Ranch. Taught plant-soil correlations and state-and-transition model concepts.

USDA Natural Resource Conservation Service. Nov. 23-25, 2009, March 10-12, 2010, December 1-3, 2010 and March 21-23, 2011. Reno, NV. Taught concepts of state-and-transition models for Great Basin rangelands. Developed response matrix for individual ecological sites and draft models for ecological site response groups.

USDA Natural Resource Conservation Service. August 4-6, 2009. Wichita, KS. Riparian State-and-Transition Modeling (STM) workshop. Taught stream channel concepts, riparian ecology and STMs.

University of Nevada Reno and USDA Natural Resource Conservation Service. November 18-20, 2008. Riparian Ecological Site Description and State-and-Transition Modeling Workshop, Part II. Developed workshop and taught basics of stream channel morphology and classification, riparian ecology and concepts for STMs for riparian systems.

USDA Natural Resource Conservation Service. August 2008. Albuquerque, NM. Introduction to Riparian State-and-Transition Modeling (STM). Taught basics of stream channel morphology and classification, riparian ecology and development of STMs for riparian systems.

PROFESSIONAL TRAINING WORKSHOPS attended

Soil and Watershed Assessment Tool Training Course. USDA, Agricultural Research Service. January 12-14, 2010. Reno, NV.

Applied Fluvial Geomorphology Training Course, Wildland Hydrology, Inc., Research and Educational Center for River Studies. August 2-6, 1999. Pagosa Springs, CO.

River Assessment and Monitoring Training Course, Wildland Hydrology, Inc., Research and Educational Center for River Studies. September 25-29, 2000. Pagosa Springs, CO.

River Morphology and Application Training Course, Wildland Hydrology, Inc., Research and Educational Center for River Studies. September 18-22, 2000. Pagosa Springs, CO.

GRANT & CONTRACT SUPPORT

GRAND TOTAL 2000-2013: \$4,230,603.00

2013: Total (to date) = \$410,066

USDI Bureau of Land Management, Development of STMs for NV Rangelands. **\$49,200**

USDA Agricultural Research Service Great Basin Ecological Sites. **\$86,400**

GBLLC: Desatoya Mountains Project and the Porter Canyon Experimental Watershed. Co-PI **\$77,422**

USDI Bureau of Land Management, Winter's Ranch Ecohydrology Monitoring Phase 3. **\$50,000**

USDA Multi-State. Wera 1011 – Sustainable Rangeland and Watershed Stewardship. **\$70,118**

USDA Hatch Grant. Use Of Seed Coating Technologies For Rehabilitation Of Wildfire Impacted Rangelands. **\$8333**

USDA Hatch Grant. Rehabilitation Of A Salt-Desert Shrub Community: Herbaceous Response To Shrub Removal And Establishment Of Forage Kochia And Other Plant Species. **\$8333**

USDA Multi-State. Wera 040 – Ecological Site Condition Concept: Post-fire Grazing. **\$60,260**

USDA National Institute of Food & Ag.: Development and Sustainable Production of Biomass Feedstocks from Pinion-Juniper Woodlands. **\$10,000,000** (not awarded; ranked 6/17)

2012: Total (to date) = \$383,079.00

USDA Agricultural Research Service Conservation Effects Quantification. **\$33,000**
USDI Bureau of Land Management, Development of STMs for NV Rangelands. **\$67,300**
USDA Agricultural Research Service Great Basin Ecological Sites. **\$100,000**
USDA Agricultural Research Service Great Basin Ecological Sites Phase II. **\$80,000**
USDA Multi-State. Wera 1011 – Sustainable Rangeland and Watershed Stewardship. **\$49,200**
USDA Hatch Grant. Use Of Seed Coating Technologies For Rehabilitation Of Wildfire Impacted Rangelands. **\$14,700.00**
USDA Hatch Grant. Rehabilitation Of A Salt-Desert Shrub Community: Herbaceous Response To Shrub Removal And Establishment Of Forage Kochia And Other Plant Species. **\$38,879**

2011: Total (to date) = \$337,000

USDI Bureau of Land Management. State-and-Transition Models for MLRA 28A & 28B. **\$207,000**
USDA Nevada Aridland Research Initiative. Hydrologic and vegetative response to pinyon-juniper treatment at the watershed scale. **\$60,000**
USDA Agricultural Research Service Conservation Effects Quantification. **\$60,000**
Wildfire Conservation Group. Restoration of wildfire impacted rangelands. **\$10,000**
USDA National Institute of Food & Agriculture. Restoring ecological function to severely degraded Phase III pinyon-juniper woodlands. **\$353,085** (not awarded)
USDA National Institute of Food & Agriculture. Evaluating hydrologic controls of environmental thresholds in pinyon and juniper dominated agroecosystems. **\$476,101** (not awarded)
Eureka County, NV. State-and-Transition Models for MLRA 28B. **\$40,000** (not awarded)

2010: Total = \$708,622

U.S. Environmental Protection Agency. Integrating Market and Non-Market Benefits to Value Ecological Change in Agroecosystems: An Application to Invasive Weeds on Great Basin Rangeland. Co-PI. **\$499,243**
USDA Agricultural Research Service. Conservation Effects Quantification. **\$10,000**
USDA Natural Resource Conservation Service. State-and-Transition Models for MLRA 25. **\$40,000**
USDA Hatch Grant. Rehabilitation of a salt-desert shrub community: Herbaceous response to shrub removal and establishment of forage kochia and other plant species. **\$68,379**
Nevada Aridland Research Initiative. Restoration of wildfire impacted rangelands. **\$40,000**
USDI Bureau of Land Management. Winter's Ranch Ecohydrology Monitoring Phase 2. **\$50,000**
Nevada Agriculture Foundation. Pinion- Juniper Treatment Effects on Watershed Function. **\$1,000**

2009: Total = \$272,726

USDI Bureau of Land Management. Winter's Ranch Ecohydrology Monitoring. **\$50,000**
USDA Natural Resource Conservation Service. State-and-Transition Models for MLRA 24. **\$40,000**
USDA Hatch Grant. Ruminant Digestion and Survival of Plant Seeds Important to Great Basin Rangeland Rehabilitation. **\$40,000**
USDA Hatch Grant. Modeling Rancher and Public Agency Decision-making to Coordinate Efforts to Battle Invasive Weeds and Wildfire on Nevada Rangelands. Co-PI. **\$130,476**

Rangeland Resources Commission. Pinion-Juniper Treatment Effects Watershed Function. **\$10,500**
Nevada Agriculture Foundation. Pinion- Juniper Treatment Effects on Watershed Function. **\$1,750**

2007-08: Total = \$168,409

The Klamath Tribes. Sprague River Assessment & Monitoring. **\$54,000**
USDA Natural Resource Conservation Service. Wood River Riparian Community Typing. **\$35,722**
USDA Agricultural Research Service. Evaluation of Sage Grouse Habitat and Food Supply. **\$38,983**
Oregon Cattlemen Association. Association between livestock grazing and plant community composition, structure and sage-grouse food sources. **\$28,204**
USDA Natural Resource Conservation Service. Development of state-and-transition models for MLRA D23-24. **\$11,500**

2005-06: Total = \$580,115

USDA Natural Resource Conservation Service. Wood River Vegetation & Livestock Monitoring. **\$120,000**
USDA Natural Resource Conservation Service. Wood River Riparian Community Typing. **\$51,241**
USDA Natural Resource Conservation Service. Sprague River Riparian Community Typing. **\$13,530**
USDI, Bureau of Land Management. A Landscape Scale Analysis of Sage Grouse Habitat Attributes. Co-P.I. **\$140,000**
USDA Forest Service. Riparian potential: identification and quantification: **\$32,000**
Oregon State University Agricultural Experiment Station. Rangeland Water Quality: methods and management for enhancing Oregon's water quality. **\$160,000**
USDA, Natural Resource Conservation Service. Ecological Site Description Development: **\$70,000**
Roaring Springs Ranch: Contribution to Winterfat Project. **\$13,500**
Grande Ronde Model Watershed Project. Riparian revegetation and monitoring after restoration. **\$20,000**
USDA, Natural Resource Conservation Service. Sage Grouse & Livestock Grazing. **\$29,844**

2003-04: Total = \$247,400.00

OSU Extension Service. Development of an Oregon range plant information site and CD. Co-P.I. **\$16,400**
USDA Forest Service. Short-course development. Collection and analysis of channel morphology data and riparian plant community attributes. **\$6000**
Roaring Springs Ranch. In-kind support. Effects of winter grazing on winterfat. **\$35,000**
Roaring Springs Ranch. In-kind support. Assessing the impacts of felled western juniper trees placed over a stream channel on stream temperature, fish behavior and willow herbivory. **\$15,000**
Oregon State University Agricultural Experiment Station. Rangeland Water Quality: methods and management for enhancing Oregon's water quality. **\$175,000**

2000-2002: Total = \$254,000

Oregon State University Agricultural Experiment Station. Rangeland Water Quality: methods and management for enhancing Oregon's water quality. **\$248,000**
Paiute Confederated Tribe, Burns, Oregon. Rosgen Level III Stream Classification Training. **\$6000**

RESEARCH & SCHOLARSHIP

Refereed Articles (*indicates graduate student as senior author)

Freese, E.A., T.K. Stringham, G. Simonds, and E. Sant. Grazing for fuels management and sage grouse habitat maintenance and recovery: A case study from Squaw Valley Ranch. *Rangelands* 35(4):13-17.

*Lossing, S., T.K. Stringham, C. A. Carr, K. A. Snyder, M.A. Weltz and B. J. Stringham. *In Revision*. Quantifying and modeling rainfall interception and redistribution by singleleaf pinon and Utah juniper. *Rangeland Ecology and Management*.

*Matney, C.A. and T.K. Stringham. *Submitted*. Dynamic soil properties in relation to distance from a cattle watering point. *J. of National Association of County Agricultural Agents*.

*Mollnau, C., M. Newton and T.K. Stringham. *Accepted*. Soil water dynamics and transpiration rates of Western juniper (*Juniperus occidentalis*) in central Oregon. *J. of Arid Environments*.

Stringham, T.K., E.A. Freese, P. Novak-Echenique, L. Wisely and P. L. Shaver. *In development*. Expediting state-and-transition model development through the use of disturbance response groups.

Stringham, T. K. and M. G. Estes. *In development*. Restoration of a winterfat (*Krascheninnikovia lanata*, Pursh) plant community: Assessment of four seedbed preparations.

Stringham, T. K. and M. G. Estes. *In development*. Squirreltail (*Elymus elymoides*) as a rangeland restoration species: Assessment of four seedbed preparations.

Stringham, T. K. and M. G. Estes. *In development*. Dormant season nutritional content of winterfat (*Krascheninnikovia lanata*) rangeland in relation to livestock performance.

Stringham, T. K. and J.P. Repp. 2010. Ecological Site Descriptions: Considerations for Riparian Systems. Invited Paper. *Rangelands* 32(6):43-48.

Briske, D.D., R.A. Washington-Allen, C.R. Johnson, J.A. Lockwood, D.R. Lockwood, T.K. Stringham and H.H. Shugart. 2010. Catastrophic Thresholds: A Synthesis of Concepts, Perspectives, and Applications. Invited Synthesis. *Ecology and Society* 15(3):37.

*Quistberg, S.E. and T.K. Stringham. 2010. Sedge transplant survival in a reconstructed channel: Influences of planting location, erosion and invasive species. *Restoration Ecology* 18(s2):401-408.

*Petersen, S.L. and T.K. Stringham. 2009. Intercanopy community structure across a heterogeneous landscape in a western juniper encroached ecosystem. *J. of Vegetation Science* 20:1163-1175.

*Petersen, S.L., T.K. Stringham, and B.A. Roundy. 2009. A process-based application of state-and-transition models: A case study of western juniper encroachment. *Rangeland Ecology and Management* 62(2):186-192.

*Petersen, S.L. and T.K. Stringham. 2008. Infiltration, runoff, and sediment yield in response to western juniper encroachment in southeastern Oregon. *Rangeland Ecology and Management* 61:74-81.

- *Petersen, S.L. and T.K. Stringham. 2008. Development of GIS-based models to predict plant community structure in relation to western juniper establishment. *Forest Ecology and Management* 256:981-989.
- Briske, D.D., B.T. Bestelmeyer, T.K. Stringham and P.L. Shaver. 2008. Recommendations for development of resilience-based state-and-transition models. *Rangeland Ecology and Management* 61:359-367.
- *Petersen, S.L., T.K. Stringham and A. Laliberte. 2005. Classification of willow species using large scale aerial photography. *Rangeland Ecology and Management* 58:582-587.
- *Matney, C.A., C.S. Boyd and T.K. Stringham. 2005. Use of felled junipers to protect willows from browsing. *Rangeland Ecology and Management* 58:652-655.
- Stringham, T.K., W.C. Krueger and P.L. Shaver. 2003. State and transition modeling: A process based approach. *J. Range Management* 56:106-113. Featured Article.
Manuscript is featured on the USDA, NRCS Grazing Land Institute web site and included in the USDA National Range and Pasture Handbook.
- Stringham, T.K., W.C. Krueger and D.R. Thomas. 2001. Application of non-equilibrium ecology to rangeland riparian zones. Featured Article. *J. Range Management*. 54:210-217.
- Stringham, T. K., J.C. Buckhouse and W.C. Krueger. 1998. Technical Note: Stream temperature as related to subsurface water flows originating from irrigation. *J. Range Management* 51:88-90.
- Stringham, T.K. 2011. State-and-transition models for Major Land Resource Area 24, Nevada: Final Report for USDA, NRCS Contract 68-9327-9-09. 142p.
- Stringham, T.K. 2010. Sprague River Riparian Vegetation & Channel Monitoring 2008-2009: Final Report for Klamath Tribes Contract # 92-BOR11-08-2. 204p.
- Stringham, T.K. and E.A. Freese. 2010. Ruminant Digestion and Survival of Plant Seeds Important to Great Basin Rangeland Rehabilitation. Nevada Agricultural Experiment Station.
- Stringham, T.K. 2009. State-and-transition models for Major Land Resource Area D23 & D24, Oregon: Final Report for USDA, NRCS Contract 68-0436-8-040. 43p.
- * Freese, E.A., T.K. Stringham, and J.C. Miller. 2009. Relationships between insect abundance and plant community characteristics for sage-grouse brood-rearing habitat. Corvallis, Oregon: Oregon State University Beef Research Report.
- Stringham, T.K. and S.E. Quistberg. 2008. Wood River Valley Vegetation Monitoring Summary 2007-2008: Final Report for USDA, NRCS Wood River CEAP project. 54p.
- Stringham, T.K. and S.E. Quistberg. 2008. Seven Mile and Crooked Creek Monitoring Summary: Final Report for USDA, NRCS Wood River CEAP project. 128p.
- Stringham, T.K. 2007. State-and-transition models for Oregon rangelands: Final Report for NRCS Contract 68-0436-4-090.
- Stringham, T.K. 2005. Watershed/Riparian Committee Contributes to 2005 SRM National Meeting. *Rangelands* 27:52-52.

- Stringham, T.K. and M. Borman. 2005. Riparian Plant Fact Sheets. Dept. of Rangeland Ecology and Management, Oregon State University. <http://oregonstate.edu/dept/range/riparian-plant-fact-sheets>
- *Carr, C., T.K. Stringham and D. Thomas. 2003. The influence of environmental and physical factors on the thermal patterns of headwater streams. Range Science Series Report #6, Dept. of Rangeland Resources, Oregon State University, Corvallis.
- *Lowson, K., J. C. Buckhouse, T.K. Stringham and C.S. Boyd. 2003. Effects of planting location on survival and growth of Booth's willow plantings. Range Science Series Report #6, Dept. of Rangeland Resources, Oregon State University, Corvallis.
- *Matney, C.A., T.K. Stringham, C.S. Boyd and R. Gresswell. 2003. Great Basin redband trout (*Oncorhynchus mykiss newberrii*) habitat improvement using felled Western juniper (*Juniperus occidentalis*). Range Science Series Report #6, Dept. of Rangeland Resources, Oregon State University, Corvallis.
- *Taylor, G.I., T.K. Stringham and W.C. Krueger. 2003. Irrigation as a tool for stream temperature management. Range Science Series Report #6, Dept. of Rangeland Resources, Oregon State University, Corvallis.
- Stringham, T.K., W.C. Krueger and P.L. Shaver. 2001. States, transitions, and thresholds: Further refinement for rangeland applications. Agricultural Experiment Station Special Report 1024, Oregon State University, Corvallis.
- Stringham, T.K. and K. Lowson. 2000. Photo Documentation. IN: Stream Shade Monitoring Guidebook (chp. 14), Water Quality Monitoring Technical Guide Book, Oregon Plan for Salmon and Watersheds. Salem, Oregon.
- Krueger, W.C., T.K. Stringham, and C.E. Kelley (compilers). 1999. Environmental and management impacts on stream temperature: Final Reports. Submitted to the *Governor's Watershed Enhancement Board*, Nov. 30, 1999. Dept. of Rangeland Resources, Oregon State University, Corvallis.
- Stringham, T.K., J.C. Buckhouse, and W.C. Krueger. 1999. Subsurface irrigation: Field measurements of return flow and impact on stream temperature. Pp. 77-90 IN: W.C. Krueger, T.K. Stringham, and C.E. Kelley (compilers), Environmental Impacts on Stream Temperature. Final Report to the *Governor's Watershed Enhancement Board*, Nov. 30, 1999. Dept. of Rangeland Resources, Oregon State University, Corvallis.
- *Hopkins, K. and T.K. Stringham. 1999. The thermal patterns of type C and E streams of eastern Oregon: 1998 and 1999 data summary. Pp. 140-161 IN: W.C. Krueger, T.K. Stringham, and C.E. Kelley (compilers), Environmental Impacts on Stream Temperature. Final Report to the *Governor's Watershed Enhancement Board*, Nov. 30, 1999. Dept. of Rangeland Resources, Oregon State University, Corvallis.
- *Peterson, B., T.K. Stringham, and W.C. Krueger. 1999. The impact of shade on the temperature of running water. Pp. 176-184 IN: W.C. Krueger, T.K. Stringham, and C.E. Kelley (compilers), Environmental Impacts on Stream Temperature. Final Report to the *Governor's Watershed Enhancement Board*, November 30, 1999. Dept. of Rangeland Resources, Oregon State University, Corvallis.
- Stringham, T.K. 1999. Accuracy study. Pp. 200-202 IN: W.C. Krueger, T.K. Stringham, and C.E. Kelley (compilers), Environmental Impacts on Stream Temperature. Final Report to the *Governor's Watershed Enhancement Board*, November 30, 1999. Dept. of Rangeland Resources, Oregon State University, Corvallis.

Stringham, T.K. 1998. Meadow ecology and hydrology. IN: S. Sharrow (editor), Research in rangeland management: Meadow ecology and management. *Rangeland Science Series Report #4*. Dept. of Rangeland Resources, Oregon State University, Corvallis.

Krueger, W.C. and T.K. Stringham. 1998. Environmental and management impacts on stream temperature: 1997-98 annual reports. Submitted to the *Governor's Watershed Enhancement Board*, June 30, 1998. Dept. of Rangeland Resources, Oregon State University, Corvallis.

Lamb, L., L.R. Zwegardt, L.T. Zwegardt, S. Bird and T.K. Stringham. 1996. Range and riparian assessment training program: self study guide. *Ministry of forests, Range, Recreation and forest Practices Branch, Range Section*, Victoria, British Columbia.

PROFESSIONAL CONFERENCE ABSTRACTS

(indicates invited; *indicates graduate student as senior author)**

Carr, C., Stringham T.K. and E. Freese. Groundwater-vegetation relationships in an irrigation-maintained wet meadow and considerations for restoration following irrigation removal. *Abstr. of Papers, 66th Annual Meeting, Soc. for Range Management*, Oklahoma City, OK. February 2 – February 8, 2013.

*Dittrich, A., K. Snyder, S. Lossing, T.K. Stringham. 2012. Pinyon and juniper summer water source partitioning: Stemflow vs. groundwater. *Abstr. of Papers, 65th Annual Meeting, Soc. for Range Management*, Spokane, WA. January 28 – February 3, 2012.

*Lossing, S., T.K. Stringham, M. Weltz. 2012. Rainfall interception by *Pinus monophylla* and *Juniperus osteosperma* in Central Nevada. *Abstr. of Papers, 65th Annual Meeting, Soc. for Range Management*, Spokane, WA. January 28 – February 3, 2012.

*Noelle, S.M., C.A. Carr, T.K. Stringham, M.A. Weltz. 2012. Effect of pinyon and juniper slash on surface hydrology following a prescribed cut-and-limb treatment in central Nevada. *Abstr. of Papers, 65th Annual Meeting, Soc. for Range Management*, Spokane, WA. January 28 – February 3, 2012.

Snyder, K.A., T.K. Stringham, M. Weltz, A. Dittrich, S. Lossing, S. Noelle. 2012. Hydrologic research in a pinyon and juniper encroached watershed. *Eastern Nevada Landscape Coalition Semi Annual Conference*. June 6⁸ 2012. Ely, NV.

Stringham, T.K., P. Novak-Echenique, E.A. Freese, L. Wiseley and P.L. Shaver. 2011. Expediting state-and-transition models through sorting of ecological site's into disturbance response groups. *Abstr. of Papers, 64th Annual Meeting, Soc. for Range Management*, Billings, MT. February 5-11, 2011.

*Lossing, S., T.K. Stringham, and M. Weltz. 2011. Rainfall interception and partitioning by *Pinus monophylla* and *Juniperus osteosperma*. *Abstr. of Papers, 64th Annual Meeting, Soc. for Range Management*, Billings MT. February 5-11, 2011.

*Matney, C. and T. K. Stringham. 2011. An assessment of plant community structure, herbivory, soils and state-and-transition theory on a Winterfat (*Krascheninnikovia lanata*) ecological site. *Abstr. of Papers, 64th Annual Meeting, Soc. for Range Management*, Billings MT. February 5-11, 2011.

- ** Stringham, T.K., J.P. Repp and B. Southerland. 2010. Fluvial riparian ecosystems: Development and adoption of state-and-transition models. *Abstr. of Papers, 63rd Annual Meeting, Soc. for Range Management*, Denver, CO. February 6-12, 2010.
- *Freese, E.A., J.C. Miller and T.K. Stringham. 2010. Moth abundance and diversity in a mixed sagebrush steppe community in central Oregon. *Abstr. of Papers, 63rd Annual Meeting, Soc. for Range Management*, Denver, CO. February 6-12, 2010.
- ** Stringham, T.K. 2009. Vegetation associated with functional stream types: Riparian complex concepts. *Abstr. of Papers, 62nd Annual Meeting, Soc. for Range Management*, Albuquerque, NM. February 12, 2009.
- ** Stringham, T.K. 2009. Vegetation Succession and Channel Geomorphic Thresholds. *Abstr. of Papers, 62nd Annual Meeting, Soc. for Range Management*, Albuquerque, NM. February 12, 2009.
- ** Stringham, T.K. 2009. State-and-Transition Model Components for Riparian Ecosystems, *Abstr. of Papers, 62nd Annual Meeting, Soc. for Range Management*, Albuquerque, NM. February 12, 2009.
- ** Stringham, T.K. 2008. Riparian Ecological Sites and State-and-Transition Models. *Abstr. of Papers Annual Meeting, American Fisheries Western Division Conference, American Fisheries Association*, Portland, OR. May 6, 2008.
- ** Stringham, T.K. 2008. Current Status of the State-and-Transition Framework. *Abstr. of Papers 61st Annual Meeting, Soc. for Range Management*, Louisville, KY. January 28, 2008.
- *Estes, M., T.K. Stringham, J. Males, D. Bohnert, and W.C. Krueger. 2007. Forage quality of Winterfat ((*Ceratoides lanata* (Pursh)) plant communities during the dormant season: an insight to cattle performance. *Abstr. of Papers, 60th Annual Meeting, Soc. for Range Management*, Reno, NV. February 9-16, 2007.
- *Quistberg, S. and T.K. Stringham. 2007. Riparian revegetation techniques for a reconstructed meadow channel. *Abstr. of Papers, 60th Annual Meeting, Soc. for Range Management*, Reno, NV. February 9-16, 2007.
- *Wiseman, J. and T.K. Stringham. 2007. Riparian Site Capability in terms of woody riparian species along streams in Northeast Oregon. *Abstr. of Papers, 60th Annual Meeting, Soc. for Range Management*, Reno, NV. February 9-16, 2007.
- **Stringham, T.K. 2006. State-and Transition Modeling Definitions from an Ecological Process Approach. *Abstr. of Papers, 91st Annual Meeting, Ecological Society of America*, Memphis, TN. Aug. 6-11, 2006.
- *Estes, M. and T.K. Stringham. 2006. Restoration of a Winterfat ((*Ceratoides lanata* (Pursh)) dominated plant community: assessment of four seedbed preparations. *Abstr. of Papers, 59th Annual Meeting, Soc. for Range Management*, Vancouver, British Columbia, Canada. February 12-17, 2006.
- *Estes, M. and T.K. Stringham, J. Males and D. Bohnert. 2006. Forage quality of Winterfat (*Ceratoides lanata*) plant communities during the dormant season: correlation to livestock body condition scores. *Abstr. of Papers, 59th Annual Meeting, Soc. for Range Management*, Vancouver, British Columbia, Canada. February 12-17, 2006.

- *Petersen, S.L., T.K. Stringham, D. Johnson, R. Miller and M. Barrington. 2005. Generation of a western juniper competition index using remote sensing and geographic information systems. *Abstr. of Papers, 58th Annual Meeting, Soc. for Range Management, Fort Worth, TX. February 4-Feb 11, 2005.*
- *Petersen, S.L., T.K. Stringham, D. Johnson, M. Barrington and R. Miller. 2005. Identification of states, transitions, and thresholds within a western juniper dominated landscape. *Abstr. of Papers, 58th Annual Meeting, Soc. for Range Management, Fort Worth, TX. February 4-Feb 11, 2005.*
- *Lowson, K.L., J.C. Buckhouse, T.K. Stringham. 2004. The effects of environmental variables on willow planting success. *Abstr. of Papers, 57th Annual Meeting, Soc. for Range Management, Salt Lake City, UT. Jan 31-Feb 6, 2004.*
- *Matney, C.A., T.K. Stringham, C. Boyd. 2004. Great basin redband trout habitat improvement using felled western juniper. *Abstr. of Papers, 57th Annual Meeting, Soc. for Range Management, Salt Lake City, UT. Jan 31-Feb 6, 2004.*
- *Petersen, S.L. and T.K. Stringham. 2004. Development of GIS-based models used to predict plant community composition in a southeast Oregon watershed. *Abstr. of Papers, 57th Annual Meeting, Soc. for Range Management, Salt Lake City, UT. Jan 31 – Feb 6, 2004.*
- **Stringham, T.K. 2003. "Where's the Data?" or "Research Needs: Quantification of States, Transitions, and Thresholds." *Abstr. of Papers, 56th Annual Meeting, Soc. for Range Management, Casper, WY. February 2-6, 2003.*
- *Shaver, P.L., T. K. Stringham, W. C. Krueger. 2003. Ecological Process Based State-and-Transition Model. *Abstr. of Papers, 56th Annual Meeting, Soc. for Range Management, Casper, WY. February 2-6, 2003.*
- *Matney, C.A., T.K. Stringham, C. Boyd. 2003. Great Basin Redband Trout Habitat Improvement Using Felled Western Juniper. *Abstr. of Papers, 56th Annual Meeting, Soc. for Range Management, Casper, WY. February 2-6, 2003.*
- *Petersen, S.L. and T.K. Stringham. 2003. Modeling of Ecological and Physical Processes in a Western Juniper Dominated Watershed Using Geographic Information systems. *Abstr. of Papers, 56th Annual Meeting, Soc. for Range Management, Casper, WY. February 2-6, 2003.*
- **Stringham, T.K. 2002. Riparian plant response to defoliation. *Abstr. of Papers, 55th Annual Meeting, Soc. for Range Management, Kansas City, MO. February 13-19, 2002.*
- **Stringham, T.K. 2002. Riparian Plant Response to Defoliation: Knowledge Necessary for Management. *American Fisheries Society Western Division Conference, Spokane, WA. April 28, 2002.*
- **Stringham, T.K. 2002. State and Transition Modeling: A Call for Dynamic Soil Properties. *ASA-CSSA-SSA Annual Meeting. Indianapolis, IN. Nov. 2002.*
- *Petersen, S. L. and T. K. Stringham. 2002. Rainfall Infiltration on Juniper Dominated Watersheds in Southeast Oregon. *Research & Extension Regional Water Quality Conference, Vancouver, WA. February 2002.*

- *Petersen, S.L., T.K. Stringham and A. Liberte. 2001. Classification of willow species in eastern Oregon using high-resolution aerial photography. *Abstr. of Papers, 54th Annual Meeting, Soc. for Range Management*, Kona, Hawaii. February 2001.
- **Stringham, T.K. 2000. Using temperature to validate best management practices. *Abstr. of Papers, 53rd Annual Meeting, Soc. for Range Management*, Boise, Idaho. February 2000.
- Stringham, T.K., W.C. Krueger and J.C. Buckhouse. 2000. Management impact on the thermal regime of a rangeland stream. *Abstr. of Papers. International Conference of American Water Resources Association on Riparian Ecology and Management in Multi-land Use Watersheds*, Portland, OR. August 28-31, 2000.
- **Stringham, T.K. 2000. State and Transition. *Abstr. of Papers. Arizona Ecological Site Symposium*, Tucson, AZ. Aug. 17-19, 2000.
- *Peterson, B.N, T.K. Stringham and W.C. Krueger. 1999. The impact of shade on the temperature of running water. *Abstr. of Papers, 52nd Annual Meeting, Soc. for Range Management*, Omaha, Neb., February 1999.
- Stringham, T.K., W.C. Krueger and D.R. Thomas. 1998. Understanding the relationship between water table depth and plant communities: Implications for riparian management and restoration. IN: Donald F. Potts (editor), 1998. *Proceedings of AWRA Specialty Conference, Rangeland Management and Water Resources*. American Water Resources Assoc., Herndon, VA. 474pp.
- Stringham, T.K., W.C. Krueger and J.C. Buckhouse. 1998. Understanding the thermal regime of a rangeland stream. *Abstr. of Papers, 51st Annual Meeting, Soc. for Range Management*, Guadalajara, Mexico. February 1998.
- *Crymes, G.D., T.K. Stringham and J.C. Buckhouse. 1998. Methodology for measurement of riparian woody vegetation for the purpose of determining their contribution to shade on the water surface. IN: Donald F. Potts (editor), 1998. *Proceedings of AWRA Specialty Conference, Rangeland Management and Water Resources*. American Water Resources Assoc., Herndon, VA. 474pp.
- Stringham, T.K., J.C. Buckhouse and W.C. Krueger. 1997. Understanding the thermal regime of a rangeland stream: a case study. *IN: Riparian and Watershed Management in the Interior Northwest: an interdisciplinary perspective*. La Grande, OR, Sept. 10-12, 1997.
- Stringham, T.K., W.C. Krueger and D.R. Thomas. 1997. States and transition zones within a riparian meadow: Implications for management and restoration. *Abstr. of Papers, 50th Annual Meeting, Soc. for Range Management*, Rapid City, SD. February 1997.
- Stringham, T.K., J.C. Buckhouse and W.C. Krueger. 1997. Stream temperatures as related to subsurface water flows originating from irrigation practices. *Abstr. of Papers, 50th Annual Meeting, Soc. for Range Management*, Rapid City, SD. February 1997.
- Stringham, T.K., W.C. Krueger and D.R. Thomas. 1996. Application of non-equilibrium ecology to managed riparian ecosystems. *Abstr. of Papers, 49th Annual Meeting, Soc. for Range Management*, Wichita, KS. February 1996.
- Stringham, T.K., J.C. Buckhouse and W.C. Krueger. 1996. Stream temperature as related to subterranean irrigation. Pp. 11-18 IN: *Rangeland Science Series Report #3*, Dept. of Rangeland Resources, Oregon State University, Corvallis.

Buckhouse, J.C., T.K. Stringham and W.C. Krueger. 1996. Stream temperature amelioration through subsurface (interflow) delivery of irrigation water. *IN: Proc. 9th Annual James O. Vomocil Water Quality Conf.*, Oregon State Univ., Corvallis. 3p.

INVITED PRESENTATIONS

Society for Range Management 66th Annual Meeting. State and Transition Model Development: A Systematic Approach Focused on Quality Control. February 2, 2013. Oklahoma City, OK.

Society for Range Management 66th Annual Meeting. *Resilience Concepts in STMs, Understanding Disturbance Responses*. February 4, 2013. Oklahoma City, OK.

Society for Range Management 65th Annual Meeting. *Ecological Site Descriptions and State-and-Transition Model Development*. January 28, 2012. Spokane, WA.

Society for Range Management, Nevada Section Winter Meeting. *State-and-Transition models and Disturbance Response Groups for Managing Nevada Rangelands*. January 10, 2013. Elko, NV.

Society for Range Management 65th Annual Meeting. *Development of state-and-transition model concepts*. January 30, 2012. Spokane, WA.

California State University, Chico. College of Agriculture. *Five guest lectures*. March 5-7, 2012.

Interagency Ecological Site Applications Workshop. *Resilience concepts in state and transition models*. June 5-7, 2012. Winnemucca, NV.

University of Nevada, Reno, Eureka County Extension, Pinyon and Juniper Workshop. *Porter Canyon Experimental Watershed Research*. Eureka, NV. March 7, 2011.

Society for Range Management, Nevada Section. *Riparian ecological site descriptions*. Reno, NV. June 2011.

Nevada Pinyon-Juniper Partnership, Pinyon-Juniper Summit: Restoration, Management and Utilization. *Porter Canyon Experimental Watershed: Smith Creek Ranch*. Las Vegas, NV. December 8-9, 2010.

Society for Range Management 63rd Annual Meeting. *Fluvial riparian ecosystems: Development and adoption of state-and-transition models*. Denver, CO. February 6-12, 2010.

USDA, Natural Resource Conservation Service, Nevada Soil Science Meeting. *State and Transition Modeling: The Soil Component*. Winnemucca, NV. November 18, 2009.

University of Nevada, Reno Agricultural Experiment Station Field Day. *Excellence in Range Management: Roaring Springs Ranch*. UNR Main Station Farm. Reno, NV. September 2009.

Eastern Nevada Landscape Coalition Annual Meeting. *Ecological Sites and State-and-Transition Models – Tools for Post-Fire Grazing Decisions*. Ely, NV. June 12, 2009.

Society for Range Management 62nd Annual Meeting. *Vegetation associated with functional stream types: Riparian complex concepts*. Albuquerque, NM. February 12, 2009.

- Society for Range Management 62nd Annual Meeting. *Vegetation Succession and Channel Geomorphic Thresholds*. Albuquerque, NM. February 12, 2009.
- Society for Range Management 62nd Annual Meeting. *State-and-Transition Model Components for Riparian Ecosystems*. Albuquerque, NM. February 12, 2009.
- Nevada Cattlemen's Association Annual Conference. *Public Land Management Challenges*. Winnemucca, NV. November 2008.
- Nevada Cattlemen's Association Annual Conference. *Research Needs in the Great Basin*. Winnemucca, NV. November 2008.
- Nevada Cattlemen's Association Annual Conference. *Women of Range*. Winnemucca, NV. November 2008.
- University of Nevada, Reno Agricultural Experiment Station Field Day. *Riparian Revegetation Success in a Reconstructed Meadow Channel*. UNR Main Station Farm. Reno, NV. September 2008.
- American Fisheries Western Division Conference, American Fisheries Association. *Riparian Ecological Sites and State-and-Transition Models*. Portland, OR. May 6, 2008.
- Soil Science Society of Oregon. 2007. *State-and-Transition Ecosystem Models and Dynamics Soil Properties*. Astoria, OR.
- Ecological Society of America National Conference. *Upstart: State and Transition Models in Rangelands.*, Symposium: Icons and Upstarts and the Detection of Thresholds: Definitions, Perspectives, and Methods. Memphis, TN. August 6-11.2006.
- Grande Ronde Model Watershed Program, Longley Meadows Tour. *Ecology of riparian vegetation and monitoring of riparian restoration projects*. La Grande, OR. July 28, 2005.
- Oregon State University, Dept. of Rangeland Ecology and Management. Range Field Days. *Understanding Ecological Potential: Guidelines for Management*. Union, OR. June 28, 2005.
- USDA, Natural Resource Conservation Service. *Issues in Riparian Areas, Great Expectations: The Next 70 Years; Joint NRCS Plant Materials Program & Grazing Land Specialists Conference*, St. Louis, MO., February 23-26, 2004.
- Oregon Cattlemen's Association Mid-Year Conference. *Water Quality Research Update*, Land Resources Committee. Baker City, OR. June 17-19, 2004.
- Oregon Cattlemen's Association Annual Conference. *Utilization of State and Transition Models for Management Decisions on Juniper Invaded Rangelands*. Redmond, OR. November 4-6, 2004.
- Oregon Dept. of Agriculture, Riparian Site Capability Workshop. *State and Transition Models for Riparian Zones*. Corvallis, OR. June 2003.
- Society for Range Management, PNW Section Meeting. *Riparian plant response to defoliation: Implications for management*. Prineville, OR. April 2003.

Society for Range Management 55th Annual Meeting. *Riparian plant response to defoliation*. Kansas City, MO. February 13-19, 2002.

American Fisheries Society Western Division Conference. *Riparian Plant Response to Defoliation: Knowledge Necessary for Management*. Spokane, WA. April 28, 2002.

Soil Science Society of America National Meeting, *State and Transition Modeling: A Call for Dynamic Soil Properties Data*, Symposium: Dynamic Soil Properties, Pedology and Soil Function: Bridging the Gap. Indianapolis, IN., November 2002.

Idaho Grazing Lands Conservation Initiative, *State and Transition Modeling for Rangeland Applications*, Ecological Site Descriptions – Improved Tool for the Future, Boise, ID. December 5, 2001.

OSU Cascade Campus Field Day Celebration, *Ecological Models for Management of Central Oregon Rangelands*, Central Oregon Ecology Symposium and Field Day, Bend, OR. October 6, 2001.

OSU Rangeland Resources, Grant County Extension Program. *Water temperature monitoring*. May 2001.

Arizona Section, Society for Range Management, *State and Transition*, Arizona Ecological Site Symposium, Tucson, AZ., August 17-19, 2000.

Society for Range Management 53rd Annual Meeting. *Using temperature to validate best management practices*. Boise, ID. February 2000.

NRCS Grazing Land Institute Meeting, *State and Transition Modeling*. Logan, UT. 2001.

California State University, Department of Botany, *Riparian Grazing Management*. Chico, CA. April, 2000.

OSU Rangeland Resources, Range Field Day. *Meadow ecology and hydrology*. John Day, Burns, OR. June, 1998.

OSU Rangeland Resources, Range Field Day. *Stream temperature as related to subterranean irrigation*. John Day, OR. June, 1996.

SERVICE TO ACADEMIA

University of Nevada, Reno

College of Agriculture, Biotechnology and Natural Resources, Dept. of Agriculture, Nutrition and Veterinary Sciences, Tenure and Promotion Committee: 2011-to-date

College of Agriculture, Biotechnology and Natural Resources. Great Basin Environmental Program Representative: 2012- to-date

College of Agriculture, Biotechnology and Natural Resources. CARET faculty representative. Washington, D.C., Feb. 20-27, 2012.

College of Agriculture, Biotechnology and Natural Resources. Researcher of the Year Committee. 2011-2013.

College of Agriculture, Biotechnology and Natural Resources, Graduate School Representative: 2009-2010.

College of Agriculture, Biotechnology and Natural Resources, Range Curriculum Committee: 2008 to present.

College of Agriculture, Biotechnology and Natural Resources, Range Club Advisor: 2008 to present.

USDA, Cooperative State Research Extension and Education Service, Rangeland Assessment and Monitoring Committee (WERA 40). Member 2008 to present.

USDA, Cooperative State Research Extension and Education Service, Range Education Across Institutional Borders Committee (WDC 23). Secretary 2011-12.

USDA, Cooperative State Research Extension and Education Service, Sustainable Rangeland and Watershed Stewardship Committee (WERA 1011). Member 2011-present

Oregon State University

College of Agricultural Sciences, Scholarship Committee: 2006, 2007.

College of Agricultural Sciences Plant Science Curriculum Review Committee: 2007.

College of Agricultural Sciences Rangeland & Ecology Interim Dept. Head Search Committee: 2007.

USDA, Cooperative State Research Extension and Education Service, Rangeland Assessment and Monitoring Committee (WERA 40). Member 2005, Secretary 2006, Chair 2007.

USDA, Cooperative State Research Extension and Education Service, Revegetation and Stabilization of Deteriorated and Altered Lands (WERA 21). Member, 2007.

College of Agricultural Sciences, Water Resources Graduate Degree Development Committee
Member 2004.

SERVICE TO PROFESSION

Member of Society for Range Management

Member of Interagency Ecological Site Development Team (2002-present)

Member of Interagency Riparian Complex Ecological Site Team (2013 to present)

Academic Program Assessment Committee, Society for Range Management (2012-2015)

Chair Watershed & Riparian Committee for the Society for Range Management (2006)

Co-chair of Watershed & Riparian Committee for the Society for Range Management (2004-05)

Member Watershed & Riparian Committee for the Society for Range Management (Ongoing)

Member Awards Committee for the Society for Range Management (2003-2005)

Graduate Student Oral Paper Judge, Society for Range Management 57th, 58th and 59th Annual Meeting

Graduate Student Poster Judge, Society for Range Management 57th, 58th and 59th Annual Meeting

Reviewer for Journal of Rangeland Ecology and Management

Reviewer for Journal of Environmental Management

Reviewer for Restoration Ecology

Reviewer for Journal of Arid Environments

Reviewer for USDA Agricultural Research Service, Rangeland, Pasture & Forages Program

Reviewer for USDA National Institute of Food and Agriculture

Reviewer for University of Wyoming, Ag. Experiment Station Grant Program

SERVICE TO INDUSTRY

Public Lands Council Annual Meeting. Winnemucca, NV. Sept. 5-8, 2012.

Wildfire and Invasive Species Panel.

Nevada Cattlemen's Association Annual Convention. Minden, NV. Nov. 2011

Public Land Committee.

Nevada Cattlemen's Association Annual Convention. Elko, NV. Nov. 2010

Public Land Committee.

Nevada Cattlemen's Association Annual Convention. Reno, NV. Nov. 2009

Public Land Committee.

Nevada Cattlemen's Association Annual Convention. Winnemucca, NV. Nov. 2008

Public Land Committee: *Challenges & solutions for public land ranching.*

Cattlemen Meeting: *Women of Range.*

Oregon Cattlemen's Association Annual Convention. Bend, Oregon. Nov. 2005.

Trade Show Booth: *Noxious Weeds of the West*.

Oregon Cattlemen's Association Annual Convention. Bend Oregon. Nov. 2006.

Trade Show Booth: *Beaver Beef and OSU Range Club*

Oregon Cattlemen's Association Semi-Annual Meeting. Baker City, OR. June 17-18, 2004.

Land Resources Committee: *Water Quality Research within the Dept. of Rangeland Resources at Oregon State University: Update*.

Oregon Cattlemen's Association Annual Convention. Bend, Oregon. Nov. 4-6, 2004.

Land Resources Committee: *Utilization of State and Transition Models for Management: Decisions on Juniper Invaded Rangelands*.

PUBLIC SERVICE

Nevada Sagebrush Ecosystem Technical Team, Science Work Group. 2013.

USDI, Bureau of Land Management, Sierra Front – NW Great Basin Resource Advisory Committee. 2009 to 2012.

USDA, Natural Resource Conservation Service. Instructor for state-and-transition model development: upland and riparian. 2005 to present.

Nature Conservancy Scientific Review Panel for Washington State. 2007-2009.

National Riparian Service Team Crooked River Proper Functioning Condition Assessment Team. Prineville, OR.

Ad-hoc member. Ongoing.

Nevada State Riparian Cadre. Reno, NV. Ad-hoc member. Ongoing.

U.S. Forest Service, Malheur River Review Team. John Day, OR. May 2005.

Oregon Dept. of Environmental Quality, Water Temperature Technical Committee: 2001-2004. Oregon Salmon Plan Water Quality Team: 1999-2000.