

Technical Program

Thursday, February 16, 2006

TECHNICAL SESSION: Rangeland Economics, Sociology, and Education
Hyatt, Georgia B – Thursday, February 16, 8:00 AM – 11:30 AM

Moderators: Lynn Huntsinger and Trent Teegerstrom

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| <p>8:00 The Story of the Stockpond – Lynn Huntsinger¹. ¹Department of Environmental Science, Policy and Management Berkeley, CA.</p> <p>8:20 Owners, Use, and Management: Californias Oak Woodlands 1985 to 2004 – Lynn Huntsinger¹, Martin Johnson¹, Monica Stafford¹ and Jeremy Fried². ¹Department of Environmental Science, Policy and Management Berkeley, CA, ²USDA Forest Service - PNW Research Station Portland, OR,.</p> <p>8:40 Change in the Steppes: Herder and livestock practices in Mongolia – Batbuyan Batjav. Center for Nomadic Pastoralism Studies, Institute of Geography, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia.</p> <p>9:00 How the Next Farm Bill Can Do More to Help Ranchers Improve Rangeland Health – Theodore Toombs¹. ¹Environmental Defense, 2334 North Broadway Boulder, CO.</p> <p>9:20 Assessing the value of Texas wildlife management associations</p> | <p>for coordinate resource management - Craig Limesand¹ and Urs Kreuter¹. ¹Department of Rangeland Ecology and Management College Station, TX.</p> <p>9:40 Break</p> <p>9:50 Nomadic Social Study in Northern Mongolia – Saruul Dolgorsuren¹. ¹Hovsgol_GEF/ World Bank Project, Geo-Ecology Institute Baruun Selbe-13, Ulaanbaatar 211238, Mongolia. Ulaanbaatar, Tov, Mongolia.</p> <p>10:10 Landowner Perceptions of Ranchland Conservation – Mark Brunson¹ and Susan Wilmot¹. ¹Dept. of Environment & Society Logan, UT.</p> <p>10:30 Landowner perceptions regarding prescribed fire in Texas – Urs Kreuter¹ and Brad Woodard¹. ¹Department of Rangeland Ecology and Management College Station, TX.</p> <p>10:50 Effects of stewardship programming on landowner attitudes, management practices, and conservation in the Prairie Ecozone – Tom Harrison¹, Jennifer Lohmeyer¹ and Glen McMaster¹. ¹Saskatchewan Watershed Authority Regina, SK, Canada.</p> <p>11:10 A Blackfoot Traditional Land Use Study: Protecting Rangelands and Preserving Culture through Natural Resource Education - Francis First Charger¹ and Rebecca S Toupal². ¹Traditional Land Use Study Coordinator Cardston, AB,</p> |
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Canada, ²Bureau of Applied
Research in Anthropology,
University of Arizona Tucson, AZ.

**TECHNICAL SESSION: Grazing
Management/Excellence in Rangeland
Management**

**Hyatt, Regency A&B – Thursday,
February 16, 8:00 AM – 11:30 AM**

Moderators: Amanda Handcock and Bret
Olson

- 8:00 **Burning and Grazing Interactions on Native Rangeland** – Lorilynn Clark ¹, Kevin Sedivec ¹, Jennifer Plummer ², Jack Norland ¹ and Mario Biondini ¹. ¹100 Hultz Hall Fargo, ND, ²USDA-Natural Resource Conservation Service Dickinson, ND.
- 8:20 **A Collaborative Grasslands Planning Effort in Eastern Wyoming** – Jon Haufler ¹, Carolyn Mehl ¹, Amy Ganguli ¹ and Scott Yeats ¹. ¹Ecosystem Management Research Institute Seeley Lake, MT.
- 8:40 **Summer Defoliation Timing and Intensity Effects on Winter Standing Herbage in the Northern Mixed-Grass Prairie** – Rebecca Hipp ¹, Alexander Smart ¹, Roger Gates ¹ and Patricia Johnson ¹. ¹Department of Animal and Range Sciences Brookings, SD.
- 9:00 **Identifying Ecosystem Impacts of Different Grazing Regimes in the Sierra Nevada** – Susan McIlroy ¹, Barbara Allen-Diaz ¹, William Frost ³, Neil McDougald ³, Leslie Roche ² and Ken Tate ². ¹University of California, Berkeley Berkeley, CA, ³University of California-Cooperative Extension Madera, CA, ²University of California, Davis Davis, CA.

9:20 **Using environmental and economic indicators to compare and evaluate different grazing strategies** - Sheila Barry¹, Keith Guenther², Grey Hayes³, Royce Larsen⁴, Glenn Nader⁵ and Morgan Doran⁶. ¹UCCE Santa Clara San Jose, CA, ²Wildland Solutions Brewster, WA ³Elkhorn Slough Foundation Coastal Training Program Moss Landing, CA, ⁴UCCE San Luis Obispo County, Paso Robles Office Paso Robles, CA, ⁵UCCE Yuba-Sutter County Yuba City, CA, ⁶UCCE Solano County Fairfield, CA.

9:40 **Break**

9:50 **Effects of dormant-season grazing on herbage production and plant growth** – Kristy-Lane Nelson¹, Kevin Sedivec¹, Christopher Schauer², Jackie Olson³, Mitch Faulkner⁴ and Timothy Faller². ¹100 Hultz Hall Fargo, ND, ²Hettinger Research and Extension Center Hettinger, ND, ³Department of Agriculture and Technical Studies Dickinson, ND, ⁴USDA-Natural Resources Conservation Service Lincoln, NE.

10:10 **Effect of increase in biodiversity on grazing performance of different native pasture mixtures seeded in southwest Saskatchewan in 2001** – Alan Iwaasa and Mike Schellenberg. Agriculture and Agri-Food Canada Semiarid Prairie Agricultural Research Centre (AAFC-SPARC), Swift Current, Saskatchewan, Canada.

10:30 **Demonstration of best management practices in the Coteau region of North Dakota** –

Amanda Hancock¹, Paul Nyren¹ and Anne Nyren¹. ¹North Dakota State University Streeter, ND.

10:50 **Development Actions: An Ecocentric Approach** – Manuel Vásquez. Centro Universitario Regional del Litoral Atlántico (CURLA), La Ceiba, Atlántida, Honduras.

11:10 **Thermal balance of cattle grazing winter range: model application** - Ilai Keren and Bret Olson. ¹P.O. Box 172900, Bozeman, MT.

SYMPOSIUM

Rangeland Infra and Forest Service I-Web 1

**Hyatt, Plaza A – Thursday, February 16
8:00 AM – 11:30 AM.**

Organizer: Bonnie Pritchard; US Forest Service.

8:00 **IWeb & Range - What's New and Navigation**

9:00 **Getting your Data Out**

10:00 **Range Mobile for PDRs**

SYMPOSIUM

Prescribed Livestock Grazing to Enhance Wildlife Habitat

Hyatt, Regency C – Thursday, February 16

8:00 AM – 11:30 AM.

Co-Organizers: Jim Knight, Dale Rollins, and Jon Boren

8:00 **Introduction**

- 8:10 **Cattle management to enhance wildlife habitat in South Texas -** Alfonso Ortega and Fred C. Bryant. Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, TX.
- 8:50 **The impacts of livestock grazing on sage grouse in northeast Montana—a historical perspective -** Ron Stoneburg (Retired), Montana Department of Fish Wildlife and Parks, Hinsdale, MT and Jim Knight. Montana State University, Bozeman, MT.
- 9:10 **Prescribed grazing to enhance quail habitat in the Southern Great Plains -** Dale Rollings, Texas A&M University, San Angelo, TX.
- 9:30 **Break**
- 9:50 **Prescribed livestock grazing to enhance riparian habitat in the southwest: A review -** Terrell Baker, Jon Boren, New Mexico State University, and Karl Wood, New Mexico State University Water Resources Research Institute, Las Cruces, NM.
- 10:10 **Challenges and opportunities for developing prescribed grazing guidelines to enhance habitat for endangered species in the southwest -** Jon Boren and Terrell Baker, New Mexico State University, Las Cruces, NM.
- 10:30 **Riparian habitat restoration and native southwestern USA fish assemblages: a tale of two rivers -** John Rinne, Rocky Mountain Research Station, Flagstaff, AZ, and Dennis Miller, Western New Mexico University, Silver City, NM.
- 10:50 **Livestock Grazing to enhance big game habitat: case studies -** Roy Fenster and Jim Knight, Montana State University, Bozeman, MT.
- 11:10 **Prescribed grazing as a tool to manage white-tailed deer habitat: myth or reality? -** Alfonso Ortega and Tim D. Fulbright, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, TX.
- SYMPOSIUM**
Grazing Alberta's Forested Rangeland
Hyatt, Regency E&F – Thursday,
February 16
8:00 AM – 11:30 AM.
- Co-Organizers: Mike Willoughby and Donna Lawrence.
- 8:00 **Introduction**
- 8:15 **Alberta's Forested Rangeland Health Assessment Protocol -** Darlene Moisey, Range Management Specialist, Alberta Sustainable Resource Development.
- 8:45 **Long-term Monitoring of Rangeland Health in the Lower Foothills Region of Alberta -** Mike Willoughby, Provincial Range Ecologist, Alberta Sustainable Resource Development.
- 9:15 **Issues, Challenge and Opportunities of Integrating Livestock Grazing and Timber Harvesting on Alberta's Public Lands -** Mike Alexander, Range

Management Specialist, Alberta Sustainable Resource Development.

9:45 **Break**

10:00 **Managing Livestock and Timber Harvesting on Public Lands – the Application of GPS Collars** - Carcey Hincz, Range Management Specialist, Alberta Sustainable Resource Development.

10:30 **Grazing Challenges in Remote Areas in the Upper Foothills Natural Subregion of Alberta** - Barry Irving, University of Alberta.

11:00 **Multiple Use Impacts on Range Health is Forest Grazing Allotments of Alberta’s Eastern Slopes** - Dr. Edward Bork, University of Alberta.

WORKSHOP

Changes in Ecology and Hydrology due to Weeds in Natural Areas
Hyatt, Regency D – Thursday, February 16
8:00 AM – 11:30 AM.

Co-Organizers: Denine Schmitz and Jim Jacobs.

The immediacy of the problem of invasive species has prompted multi-disciplinary action in many realms. We invite resource professionals from management agencies, universities, the private sector, and non-governmental organizations to attend this workshop to pool knowledge and information that quantifies the impacts of invasive species on watershed hydrology and riparian hydrology. Participants will discuss “what we know,” “what we

assume,” “what we need to know,” and “how do we get the word out.”

WORKSHOP

Using the Vegetation Dynamics Development Tool (VDDT) to Simulate Vegetation Change on the Landscape
Hyatt, Georgia A – Thursday, February 16
8:00 AM – 11:30 AM.

Organizer: Leonardo Frid.

8:00 **Overview of VDDT** - Leonardo Frid. ESSA Technologies Ltd.

8:45 **Landscape Characteristics of Sagebrush-Steppe/Juniper Woodland Mosaics Under Varying Modeled Prescribed Fire Regimes** - Stephen Bunting and Eva Strand. University of Idaho.

9:15 **Great Basin land management planning using ecological modeling** - Tara Forbis. The Nature Conservancy of Nevada.

9:45 **Break**

10:00 **Projecting landscape conditions in southern Utah using VDDT: Beaver river analysis** - James Merzenich. USDA Forest Service.

10:30 **Quantitative Modeling to Test and Direct Strategic Management of Invasive Plant Species in Montana** - Brian Martin. The Nature Conservancy of Montana.

11:00 **General Discussion**

***To be continued in afternoon**

TECHNICAL SESSION: Plant/Animal Relationships (defoliation)

Hyatt, Regency D – Thursday, February 16, 1:30 PM – 5:00 PM

Moderators: Patrick Reece and Kelly Smith

- 1:30 **Cattle range site preference on a California foothill rangeland -** Kelly R Smith¹, Neil K McDougald², David C Cao³, Norman R Harris⁴, Mel R George⁵ and Douglas E Johnson⁶. ¹Department of Rangeland and Ecology Management Corvallis, OR, ²University of California Cooperative Extension Madera, CA, ³Agronomy and Range Science Davis, CA, ⁴Agricultural and Forestry Experiment Station Palmer, AK, ⁵Agronomy and Range Science Davis, CA, ⁶Department of Rangeland and Ecology Management Corvallis, OR.
- 1:50 **Initial (5 yr) vegetation responses to the removal of native ungulate herbivory in Elk Island National Park -** Jody N Best¹ and Edward W Bork². ¹Rangeland Agrologist, PLFD, Alberta Sustainable Resource Development Pincher Creek, Alberta, Canada, ²Associate Professor, Range Management Edmonton, Alberta, Canada.
- 2:10 **Forest grazing on lodgepole-pine cutblocks in southern British Columbia -** Maja Krzic¹, Reg Newman² and Klaas Broersma³. ¹University of British Columbia Vancouver, British Columbia, Canada, ²BC Ministry of Forests, Research Branch Kamloops, British Columbia, Canada, ³Agriculture and Agri-Food Canada Kamloops, British Columbia, Canada.
- 2:30 **Break**
- 3:20 **Consequences of grazing for aspen recruitment and stand sustainability in the Sierra Nevada -** Bobette E Jones¹, Kenneth W Tate¹, David F Lile² and Shannon R Cler¹. ¹Department of Plant Sciences, University of California Davis, CA, ²University of California Cooperative Extension Susanville, CA.
- 3:40 **Seasonal Defoliation and Fall Green-up Effects on Mixed-grass Prairie in Western -** W. Douglas Whisenhunt^{1,2}, Patrick E Reece¹, Jerry D Volesky¹, Ann E Kohler¹ and Lowell E Moser¹. ¹University of Nebraska-Lincoln, Panhandle Research and Extension Center Scottsbluff, NE, ²Natural Resources Conservation Service Curtis, NE.
- 4:00 **Drought and Grazing Intensity Impacts on Northern Mixed-Grass Prairie -** Don Kirby¹, Ryan Limb¹, Edward DeKeyser¹ and Paul Nyren². ¹Animal and Range Sciences Department Fargo, ND, ²Central Grasslands Research Extension Center Streeter, ND.
- 4:20 **Effects of long-term winter-spring grazing on foothill rangeland -** Tanya M Thrift¹, Tracy K Brewer¹ and Jeffrey C Mosley¹. ¹Department of Animal and Range Sciences, Bozeman, MT.

**TECHNICAL SESSION: Wildlife
Hyatt, Regency A&B – Thursday,
February 16, 1:30 PM – 5:00 PM**

Moderators: Chad Boyd and Michael Gregg

- 1:30 **The Effects of Hydro-ax Removal of Pinyon-Juniper and Big Sagebrush on Songbirds in Southeastern Colorado** – Matthew Williamson¹, Julie Savidge¹ and Wendell Gilgert². ¹Colorado State University Ft. Collins, CO, ²Natural Resource Conservation Service Portland, OR.
- 1:50 **Effects of grassland community structure and landscape factors on grassland-dependent songbirds in Valley Grasslands, CA** – Sasha Gennet, Devii Rao, James Bartolome and Michele Hammond. Division of Ecosystem Sciences, University of California, Berkeley, CA.
- 2:10 **Inventory and Comparison of Wildlife species diversity, richness, and evenness by plant community on military training bases in North Dakota** – Renae Hines¹, Kevin Sedivec¹, Jennifer Fox¹, Mark Goertel² and William Barker¹. ¹100 Hultz Hall Fargo, ND, ²USDA-Forest Service Butte, MT.
- 2:30 **Temporal variation in diet composition of preincubating greater sage-grouse relative to food availability and age of hen** – Michael Gregg¹, Jenny Barnett² and John Crawford³. ¹U.S. Fish and Wildlife Service, Richland, WA, ²Confederated Tribes of the Umatilla Indian Reservation, Pendleton, OR, ³Oregon State University, Corvallis, OR.
- 2:50 **A Vegetative Characterization of Mountain Plover Nest Sites on the Pawnee National Grassland: A Management Perspective** – Kim Obele. USDA Forest Service, Greeley, CO.
- 3:10 **Break**
- 3:20 **Influence of Lehmann lovegrass on wintering avian abundance and seed selection in Coronado National Memorial, Arizona** – Cesar Mendez-Gonzalez¹, Laurie Abbott¹ and Martha Desmond². ¹Department of Animal and Range Sciences Las Cruces, NM, ²Department of Fishery and Wildlife Sciences Las Cruces, NM.
- 3:40 **Small mammal response to long and short term disturbance in a mixed prairie: A different footprint** – Sherry Leis^{1,2}, David Leslie³, David Engle² and Jeffrey Fehmi⁴. ¹Missouri Department of Conservation, Clinton, MO, ²Oklahoma State University Stillwater, OK, ³Oklahoma Cooperative Fish and Wildlife Research Unit Stillwater, OK, ⁴U.S. Army Engineer Research and Development Center –Corps Engineering Research Laboratory Champaign, IL.
- 4:00 **Temperature Influence on Elk Selection of Habitats in the Black Hills** – Lakhdar Benkobi¹, Mark Rumble² and Jack Butler³. ¹Rangeland Research Scientist Fort Collins, CO, ²Wildlife Biologist Rapid City, SD, ³Research Ecologist/Project Leader Rapid City, SD.

4:20 **Spatially Enabled: The Practical and Portable Benefits of GIS Technology in an Agriculture Wildlife Conflict** – Jamie Piccin¹ and Candace Piccin². ¹Dynamic Outlook Consulting Pincher Creek, Alberta, Canada, ²Alberta Sustainable Resources Development Pincher Creek, Alberta, Canada.

4:40 **Distributional and dietary overlap of elk, deer, and cattle in the Lincoln National Forest** – Brian Hurd¹, Jon Boren¹, Terrell Baker¹ and Carleton Edminster². ¹New Mexico State University Las Cruces, NM, ²USDA Forest Service Flagstaff, AZ.

TECHNICAL SESSION: Rangeland Economics, Sociology, and Education II* Hyatt, Georgia B– Thursday, February 16, 1:30 PM – 5:00 PM

Moderators: Walter Fick and Linda Hardesty

1:30 **Does collaboration increase social capital?** – Cheryl Wagner and Maria Fernandez-Gimenez. ¹Colorado State University Fort Collins, CO.

1:50 **Public Land Grazing as a Tool for Private Land Conservation: A Report from the San Francisco Bay Area, California** – Adriana Sulak¹ and Lynn Huntsinger¹. ¹Department of Environmental Science, Policy and Management Berkeley, CA.

2:10 **Montanas Undaunted Stewardship Program Raises Awareness of Sustainable Rangeland**

Management – Lisa Schmidt¹, Jeffrey Mosley¹, Merrita Fraker-Marble¹, Brent Roeder¹, Stephanie Sever¹ and Heidi Olbert¹. ¹Department of Animal and Range Sciences Bozeman, MT.

2:30 **Kansas Grassland Water Quality Program** – Walter Fick¹, Rodney Jones², Carolyn Blocksome¹, Kevin Herbel², Larry Huber¹ and Donna Schenck-Hamlin¹. ¹Department of Agronomy, Kansas State University, Manhattan, KS, ²Department of Agricultural Economics, Kansas State University, Manhattan, KS, ³Information Support Services for Agriculture, Kansas State University, Manhattan, KS.

2:50 **Break**

3:20 **Linking Ethiopian pastoralists and exporters in a livestock marketing chain: The role of education** – D. Layne Coppock¹, Seyoum Tezera², Solomon Desta^{1,3} and Getachew Gebru^{1,2}. ¹GL-CRSP PARIMA Project Logan, UT, ²GL-CRSP PARIMA Project Addis Ababa, Ethiopia, East Africa, ³GL-CRSP PARIMA Project Nairobi, Kenya, East Africa.

3:40 **Forage resource use for Utah beef production under risk and uncertainty** – Layne Coppock¹, Donald Snyder^{2,3}, Mansi Amin³ and Louise Sainsbury⁴. ¹Dept. Environment & Society Logan, UT, ²Dept. Economics Logan, UT ³Utah Agricultural Experiment Station Logan, UT ⁴275 E 2500 N Vernal, UT.

4:00 **Economic Consequences of Conifer Encroachment into Utah Aspen Stands** – Barton Stam² and John Malechek¹. ¹Dept. of Forestry, Range, and Wildlife Sciences Logan, UT, ²Thermopolis, WY,

4:20 **A Remote Sensing Based Model for Rangeland Health Assessments** – Jared Buono¹, Philip Heilman² and D. Phillip Guertin¹. ¹School of Natural Resources, University of Arizona Tucson, AZ, ²Southwest Watershed Research Center, ARS, USDA Tucson, AZ.

SYMPOSIUM

Effectiveness of Grazing Systems on Rangelands – a Critical examination of the Evidence

Hyatt, Regency E&F – Thursday,

February 16

1:30 PM – 5:00 PM.

Organizer: Walter Willms.

1:30 **Introduction** – Walter Willms.

1:45 **Vegetation responses to grazing: have unifying principles emerged?** - David D Briske. Rangeland Ecology & Management, Texas A&M University, College Station, TX.

2:15 **Predictability of effects of rotational grazing systems along environmental gradients** - Justin Derner¹ and Robert Gillen².
¹USDA-ARS Cheyenne, WY,
²USDA-ARS Woodward, OK.

2:45 **Break**

3:00 **How can grazing systems influence community structure and function?** - Samuel Fuhlendorf. Oklahoma State University Stillwater, OK.

3:30 **Knowledge gaps in assessing and predicting grazing system performance: art or science?** - Joel Brown¹ and Andrew J Ash². ¹USDA NRCS, Jornada Experimental Range Las Cruces, NM, ²CSIRO Sustainable Ecosystems St Lucia, Qld, Australia.

4:00 **Effectiveness of Grazing Systems - a Synthesis of Evidence** - Kris Havstad. USDA ARS Jornada Experimental Range Las Cruces, NM.

WORKSHOP

Using the Vegetation Dynamics Development Tool (VDDT) to Simulate Vegetation Change on the Landscape (Continued)

**Hyatt, Georgia A – Thurs, February 16
1:30 PM – 5:00 PM.**

Organizer: Leonardo Fried

The afternoon session will be a hands-on tutorial in how to use the VDDT software with exercises to develop basic skills. A laptop computer, running Windows 98SE or higher, is required. Cost of this session is \$30 (including CD with the full version of VDDT, participant workbook and refreshments). Note that the morning session is a prerequisite for the afternoon.