

## CURRICULUM VITAE

University of Idaho

(Includes 3 years credit from University of Arizona per offer letter)

**NAME:** James Eugene Sprinkle

**DATE:** 16 December 2020

**RANK OR TITLE:** Extension Beef Specialist/Professor

**DEPARTMENT:** Animal & Veterinary Science

**OFFICE LOCATION AND CAMPUS ZIP:**

UI Nancy M. Cummings Research, Extension and  
Education Center  
16 Hot Springs Ranch Road  
Carmen, Idaho 83462

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**DATE OF FIRST EMPLOYMENT AT UI:** 15 September 2015

**DATE OF TENURE:** (Year or untenured) Tenured

**DATE OF PRESENT RANK OR TITLE:** 1 July 2019

**EDUCATION BEYOND HIGH SCHOOL:**

**Degrees:** (List most recent degree first: Degree, institution name, city, state, date, major or area of specialization.)

Ph. D., 1995, Animal Nutrition, Texas A & M University, College Station, TX.

M.S., 1992, Animal Science, Montana State University, Bozeman, MT.

B.S., 1990, Animal Science, Brigham Young University, Provo, UT.

A.S., 1980, Horsemanship and Stable Management, Ricks College, Rexburg, ID.

**Certificates and Licenses:**

**EXPERIENCE:**

**Teaching, Extension and Research Appointments:** (List position titles and locations since receipt of Bachelor's degree)

Associate Professor, Extension Beef Specialist, Animal & Veterinary Science,  
University of Idaho, 2015-2019.

Area Agent, Animal Sciences, Gila and Yavapai Counties, University of Arizona  
Cooperative Extension, Payson, AZ, 2007-2015.

Regional Livestock Specialist, School of Animal & Comparative Biomedical Sciences,  
University of Arizona, Tucson, AZ, 2005-2015.

Area Associate Agent, Animal Sciences, Gila and Yavapai Counties, University of  
Arizona Cooperative Extension, Payson, AZ, 2001-2007.

Area Assistant Agent, Animal Sciences, University of Arizona Cooperative Extension, Payson, AZ, Gila, Coconino, and Yavapai Counties, 1995-1998. Assignment changed to Gila and Yavapai Counties, 1998-2001.

**Academic Administrative Appointments:** (List position titles and locations since receipt of Bachelor's degree)

Gila County Cooperative Extension Director, University of AZ, Payson, AZ, 2002-2015.

**Non-Academic Employment including Armed Forces:** (List title, brief description, date)

Graduate Research Assistant, Texas Agricultural Expt. Station, Uvalde, TX. Studied beef cattle genotype adaptations in fat deposition cooperatively with USDA Meat Animal Research Center of Clay Center, NB. Also studied beef cattle genotype adaptations in energy retrieval and storage in adipose tissue and their interactions with grazing behavior and forage intake. Assisted with ranch work as needed. 1992-1995.

Part-Time Farm Worker: Look Sharp Farm, College Station, TX. Don & Marcetta Darensbourg, owners. Repairs, colt breaking, stall maintenance, and riding lessons to supplement income while doing course work at Texas A & M University. 1992-1994.

Graduate Assistant: Montana State University, Bozeman, MT. Studied beef cow efficiency of different breed types on rangeland throughout a production year at the Northern Agricultural Research Center, Havre, MT. 1991-1992.

Student Beef Herdsman: BYU Beef Unit, Spanish Fork, UT. Assisted with registered Angus herd and summer grazing stocker cattle operations, bull performance test station, research projects, steer progeny testing, AI detection, calving, feeding, doctoring, annual bull sale, Little International, roundup, cattle processing, repairs, equipment operation, and irrigation. 1989-1990.

Maintenance: BYU Beef and Hog Units, Spanish Fork, UT. 1988-1989.

Horse Trainer/ Riding Instructor/ Stable Manager: Self employed, Abingdon, VA. (Full time; later part-time). 1983-1988.

Apprentice Horse Trainer: Four Winds Stable, Bristol, VA. 1981-1983.

Supplemental Work: Dairy farm work, marketing, factory work, auto parts sales, carpet cleaning. 1983-1989.

Other: Beef and dairy farm work; auto parts sales. 1973-1978. Raised on a beef cattle and sheep operation.

**Consulting:** (List company/institute name, title, brief description, date)

**TEACHING ACCOMPLISHMENTS:** (Academic and Extension teaching)

**Areas of Specialization:**

**Courses Taught:** (title, course number, date(s))

Guest Lecturer, Beef Cattle Science, AVS474, 1 lecture 2016, 4 lectures 2017-2018

**Students Advised:**

Undergraduate Students: (advised to completion of degree, number per year)

Graduate Students:

Advised to completion of degree-major professor (student name, degree, and date)

Landon Sullivan, Ph. D., Animal, Veterinary, & Food Science 2020-present

Served on graduate committee (student name, degree, and date)

Alex Laurence-Treynor, College of Natural Resources, 2018-2020

James R. Vinyard, M.S., Animal & Veterinary Science, 2016-2018.

Carmen M. Willmore, Ph. D., Animal & Veterinary Science, 2015-2019.

Colt W. Knight, Ph. D., School of Animal and Comparative Biomedical Sciences, University of AZ, 2013-2016.

**Materials Developed:** (non-scholarship activity)**Courses Developed:****Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.: (Since 2013)**

- Sprinkle, J. *Fitting the cow to the environment: What we have learned and future directions*. Nancy M. Cummings REEC Advisory Board Meeting, 20 November 2020. **(Invited)**.
- Sprinkle, J. *Body condition scoring and frame scores for beef cattle*. 2020 NMCREEC Bred Heifer Sale and Cow-Calf Days, 30 October 2020. **(Invited)**.
- Sprinkle, J. *Adapting to the new normal or ... What do I need to change?* 2020 UI Rangeland Center Fall Forum, Online Webinar, 2 October 2020. **(Invited)**.
- Sprinkle, J. *Managing beef cow reproductive challenges during drought*. 13<sup>th</sup> Annual AZ/UT Cowman's Reproduction Workshop, Online Webinar, 8 September 2020. **(Invited)**.
- Sprinkle, J. *Optimizing and characterizing sustainable beef production on Western rangelands*. W3012 Multistate Research Project, Online Webinar, 30 July 2020.
- Hulet, A. J. Sprinkle, and J. Karl. *Interpreting your data*. Designing, Interpreting, and Applying Rangeland Monitoring to Management, Murphy, ID, 9 June 2020. (Co-presented; **Co-organizer of Organization Committee**).
- Sprinkle, J. *Height:weight with Utilization Gauge*. Designing, Interpreting, and Applying Rangeland Monitoring to Management, Murphy, ID, 9 June 2020. (**Co-organizer of Organization Committee**).
- Sprinkle, J. *Monitoring attributes and types of monitoring*. Designing, Interpreting, and Applying Rangeland Monitoring to Management, Murphy, ID, 9 June 2020. (**Co-organizer of Organization Committee**).
- Sprinkle, J. *Outcome based management (BLM) & adaptive management (USFS) for federal grazing permits*. UI Beef Cattle Webinar Series, Online Webinar, 20 May 2020. **(Invited)**.

- Sprinkle, J. *Feeding management to achieve market weights and final product acceptability for youth market steer projects*. Animal Science Inservice for UI Extension Educators: Land and Livestock, Online Webinar, 16 April 2020. **(Chair of Organization Committee)**.
- Winford, E., J. Sprinkle, A. Kolok, M. Strickland, R. Findlay, and J. Lucas. *Mink Creek Watershed E. coli study*. UI Extension Annual Conference, Online Webinar, 13 April 2020. (Sprinkle Presented; **Invited**).
- Sprinkle, J. *Feeding show lambs*. UI Sheep and Goat Webinar Series, Online Webinar, 8 April 2020. **(Invited)**.
- Sprinkle, J. *Feeding goats*. UI Sheep and Goat Webinar Series, Online Webinar, 8 April 2020. **(Invited)**.
- Winford, E., J. Sprinkle, A. Kolok, M. Strickland, R. Findlay, and J. Lucas. *Mink Creek Watershed E. coli study*. US Forest Service Meeting with Mink Creek Grazing Association, Idaho DEQ, and City of Pocatello, Pocatello, ID, 5 March 2020. (Group Presentation, 3 Presenters).
- Winford, E., J. Sprinkle, A. Kolok, M. Strickland, R. Findlay, and J. Lucas. *Mink Creek Watershed E. coli study*. US Forest Service Meeting, Pocatello, ID, 4 March 2020. (Group Presentation, 3 Presenters).
- Sprinkle, J. E., M. J. Ellison, J. B. Hall, J. V. Yelich, C. M. Willmore, and J. R. Brennan. *Are low residual feed intake cows adapted to rangeland?* UI Rinker Rock Creek Research Webinar, Online Webinar, 12 February 2020. **(Invited)**.
- Sprinkle, J. *Protein Supplementation, grazing behavior, and performance for cattle grazing dormant range*. Clark County Cattlemen's Association Beef School, Dubois, ID, 20 January 2020. **(Invited)**.
- Sprinkle, J. *Dormant season grazing: Cost effective management to enhance adaptability and performance*. Idaho Range Livestock Symposium, Marsing, ID (6 January 2020), Twin Falls (7 January 2020), Pocatello (8 January 2020), and Rexburg, ID (9 January 2020). **(Invited)**.
- Sprinkle, J. 2019. *Calculating stocking rates and cattle sustainability research on rangeland*. Field Tour and Education Program for Salmon High School, Salmon, ID, 2 December 2019. **(Invited)**.
- Sprinkle, J., J. K. Sagers, J. B. Hall, M. J. Ellison, J. V. Yelich, J. R. Brennan, J. B. Taylor, and J. R. Brennan. 2019. *Dormant season grazing: Cost effective management to enhance adaptability and performance*. Winter Beef School, Salmon, ID, 20 November 2019. **(Invited)**.
- Sprinkle, J. with additional solicited content from UI Extension Educators and Specialists. 2019. *Animal industry Extension programs in Idaho*. Idaho Cooperative Extension Advisory Board, Moscow, ID, 31 October 2019. **(Invited)**.
- Sprinkle, J. 2019. *Research update*. Cowboy School Cow-Calf Day, Salmon, ID, 25 October 2019. **(Invited)**.
- Sprinkle, J. 2019. *What does a scientist do?* Field Tour and Program for Webelos Scouts, Salmon, ID, 24 October 2019. **(Invited)**.
- Sprinkle, J. 2019. *Dormant season grazing: Cost effective management to enhance adaptability and performance*. Tri-State Fine Fuels Management Field Day, Rockville, OR, 4 October 2019. **(Invited)**.
- Sprinkle, J. 2019. *Protein supplementation on late-season rangeland*. UI NMCREEC Twilight Forage Field Day, Salmon, ID, 5 September 2019. **(Invited)**.

- Sprinkle, J. E. 2019. *Station report: Optimizing and characterizing sustainable beef production on Western rangeland*. W2012 Multistate Research Project. Havre, MT. 25 July 2019.
- Sprinkle, J. E., J. K. Sagers, J. B. Hall, M. J. Ellison, J. V. Yelich, J. R. Brennan, J. B. Taylor, and J. R. Brennan. 2019. *Grazing behavior and production for cattle on differing late-season rangeland grazing systems*. Western Section, American Society of Animal Science, Boise, ID. 13 June 2019.
- Sprinkle, J. E., M. J. Ellison, J. B. Hall, J. V. Yelich, C. M. Willmore, and J. R. Brennan. 2019. *Are low residual feed intake cows adapted to rangeland?* Western Section, American Society of Animal Science, Boise, ID. 13 June 2019.
- Sprinkle, J. 2019. *Video Filming: Interviewee for NEPA for Ranchers*. University of Arizona School of Natural Resources and the Environment, Mesa, AZ, 8 May 2019. **(Invited)**.
- Sprinkle, J. 2019. *Beef cow efficiency and sustainability on rangeland*. 2019 Montana Nutrition Conference and Livestock Forum: Defining Sustainable Beef Production., Bozeman, MT, 16 April 2019. **(Invited)**.
- Sprinkle, J. 2019. *Arizona Livestock Incidence Response Team and Extension*. Arizona State University Non-Human Forensic DNA Analysis Class, Tempe, AZ (Remote), 15 April 2019. **(Invited)**.
- Sprinkle, J. 2019. *GPS data processing training for UI Rangeland Center interns*. College of Natural Resources, Moscow, ID, 5 March 2019.
- Sprinkle, J. and J. Brennan. 2019. *Monitoring daily livestock foraging activity with accelerometers*. Society for Range Management Annual Meeting: Ranchers' and Researchers' Guide to Cattle Behavior Technology Workshop. Minneapolis, MN. 12 February 2019. **(Invited; Assisted in Workshop Organization)**.
- Sprinkle, J. 2019. *Advances in data summary for forage intake and grazing behavior of range beef cattle*. Rinker Rock Creek Ranch Research Webinar, Multiple locations, Idaho, 6 February 2019.
- Sprinkle, J. 2019. *Grazing behavior and performance of cattle grazing late season rangeland*. Lemhi County Cattlemen's Winter School, Salmon, ID, 29 January 2019. **(Invited)**.
- Sprinkle, J. 2019. *Mineral supplementation of range livestock and regional assessment of mineral status in forage and range grasses*. Custer County Winter Beef School, Challis, ID, 21 January 2019; Mackay, ID, 22 January 2019. **(Invited)**.
- Sprinkle, J. 2018. *Beef cow efficiency on rangeland*. Malad Beef School, Downey, ID, 6 November 2018; Caribou County Beef School, Soda Springs, ID, 7 November 2018; Bear Lake County 2018 Fall Beef School, Montpelier, ID, 8 November 2018. **(Invited)**.
- Sprinkle, J. 2018. *E. coli and beef cattle grazing on rangeland*. Mink Creek Grazing Association, USFS, and ID DEQ Meeting, Pocatello, ID. 19 September 2018. **(Invited)**.
- Sprinkle, J. E. 2018. *Station report: Range research at the University of Idaho*. W2012 Multistate Research Project. Salmon, Idaho. 6 August 2018.
- Sprinkle, J. 2018. *Determining optimal efficiency of beef cattle for Idaho rangelands*. UI Vice President for Research Visit. Carmen, ID. 1 August, 2018. **(Invited)**.
- Sprinkle, J. 2018. *Grazing behavior research and monitoring at Rock Creek Ranch*. Ecology of Grazing Lands Tour Group, Rinker Rock Creek Ranch, Hailey, ID. 23 July 2018.

- Sprinkle, J. 2018. Utilization monitoring data entry. Rangeland Monitoring Workshop, Hailey, ID. 20 July 2018. **(Presented, Member of Organization Committee)**.
- Sprinkle, J. 2018. Utilization monitoring. Rangeland Monitoring Workshop, Rinker Rock Creek Ranch, Hailey, ID. 19 July 2018. **(Presented, Member of Organization Committee)**.
- Sprinkle, J. 2018. Utilization hands-on data collection. Rangeland Monitoring Workshop, Rinker Rock Creek Ranch, Hailey, ID. 19 July 2018. **(Presented, Member of Organization Committee)**.
- Sprinkle, J. 2018. *Livestock, sage grouse, and grazing management*. Western Section, American Society of Animal Science Extension Symposium, Bend, OR. 21 June 2018. **(Chair; Co-organized)**.
- Sprinkle, J. 2018. *Are there optimal cows for rangeland?* Sagebrush Saturday, Rock Creek Ranch, Hailey, ID. 16 June 2018. **(Invited)**.
- Sprinkle, J. 2018. *Cows to fit the range environment*. Animal & Veterinary Science Genetics of Livestock In-service Training. Moscow, ID. 5 April 2019. **(Presented, Member of Organization Committee)**
- Sprinkle, J. 2018. *The ruminant animal*. 4 presentations. Lemhi County Ag Days, Salmon, Idaho. 22 March 2018. **(Invited)**.
- Sprinkle, J. 2018. *Adaptive management is an examination for discovery*. Lemhi County Cattlemen's Winter School: Range and Soils, Salmon, ID. 13 February 2018. **(Invited)**.
- Sprinkle, J. 2018. *Adaptive management is an examination for discovery*. Society for Range Management Annual Meeting: Exploring Adaptability on Public Land Grazing Permits. Reno, NV. 1 February 2018. **(Invited)**.
- Sprinkle, J. 2018. *Trace mineral status of range and pasture forages from across Idaho*. Three Rivers Grazing Conference, Lewiston, ID. 9 January 2018. **(Invited)**.
- Sprinkle, J., M. Ellison, C. Willmore, J. Hall, and J. Yelich. 2017. *Station report: Identifying the optimum cow for rangeland sustainability and production efficiency OR Looking for the ideal cow*. Rock Creek Ranch Research Webinar. 6 December 2017.
- Sprinkle, J. 2017. *Winter feeding options*. Cowboy School, Salmon, ID. 2 November 2017. **(Invited)**.
- Sprinkle, J. 2017. *Rocket science on the range OR Looking for the ideal cow*. Rock Creek Sagebrush Sagebrush Saturday: Cowboy Days on the Range. Rock Creek Ranch, Hailey, ID. 16 September 2017. **(Invited)**.
- Sprinkle, J. E. 2017. *Station report: Identifying the optimum cow for rangeland sustainability and production efficiency OR Looking for the ideal cow*. W2012 Multistate Research Project. Burns, OR. 8 August 2017.
- Sprinkle, J. 2017. *Grazing behavior research on Rock Creek Ranch*. Rock Creek Ranch, Hailey, ID. 4 August 2017.
- Sprinkle, J. 2017. *Utilization monitoring with the height:weight method*. Rangeland Monitoring Workshop, Rock Creek Ranch, Hailey, ID. 8 July 2017. **(Invited)**.
- Sprinkle, J. 2017. *Using soils maps and the collaborative process for establishing monitoring sites for NEPA*. Rangeland Monitoring Workshop, Hailey, ID. 7 July 2017. **(Invited)**.

- Sprinkle, J. 2017. *Utilization methods*. Rangeland Monitoring Workshop, Hailey, ID. 7 July 2017. **(Invited)**.
- Sprinkle, J. 2017. *Beef cow supplementation and grazing distribution on late season rangeland*. Promoting Healthy Sagebrush Steppe Landscapes: A Fine Fuels Management Field Day. Oregon State University, Jordon Valley, Oregon. 25 May 2017. **(Invited)**.
- Sprinkle, J. 2017. *Vegetation attributes*. Monitoring for Your Public Grazing Permit Workshop, Salmon, ID. 23 May 2017. **(Invited)**.
- Sprinkle, J. 2017. *The ruminant animal*. 4 presentations. Lemhi County Ag Days, Salmon, Idaho. 23 March 2017. **(Invited)**.
- Sprinkle, J. 2017. *Building and testing a homemade grazing halter*. Grazing Behavior Inservice, Springdale, UT. **Co-organizer** of this 1.5 day workshop on Jan 27-28, 2017. 27 January 2017.
- Sprinkle, J. 2017. *Range livestock nutrition & grazing behavior*. Lemhi County Cattlemen's Winter School, Salmon, ID. 24 January 2017. **(Invited)**.
- Sprinkle, J., S. Baker, J. Church, R. Findlay, S. Graf, S. Jensen, S. Williams, and C. Willmore. 2017. *Mineral supplementation of range livestock & regional assessment of mineral status in forage & range grasses*. Idaho Range Livestock Symposium, Marsing, ID (12 January 2017), Twin Falls, ID (11 January 2017), and Salmon, ID (10 January 2017). **(Invited)**.
- Sprinkle, J. E. 2016. *Determining optimal efficiency of beef cattle for Idaho rangelands*. Nancy M. Cummings Research, Extension and Education Center Advisory Board Meeting. Sun Valley, ID, 14 November 2016.
- Sprinkle, J. E. 2016. *Station report: UI beef cow research*. W2012 Multistate Research Project. Scottsbluff, NB, 8 August 2016.
- Sprinkle, J. E., J. B. Taylor, P. E. Clark, M. C. Roberts-Lew, and J. B. Hall. *Grazing behavior and production characteristics among cows differing in residual feed intake while grazing late season Idaho rangeland*. American Society of Animal Science Joint Annual Meeting. Salt Lake City, UT. 22 July 2016.
- Sprinkle, J. E. M. J. Ellison, and S. Baker. *Stubble height and riparian monitoring*. Copper Basin Grazing Association. Mackay, ID. 15 July 2016. **(Invited)**
- Sprinkle, J. E., M. J. Ellison, C. M. Willmore, and J. B. Hall. *Cow research at Rock Creek Ranch. (2 presentations)*. Rock Creek Ranch Field Day. Rock Creek Ranch, Hailey, ID. 28 June 2016. **(Invited)**.
- Sprinkle, J. E. 2016. *Demonstration of VGS rangeland monitoring software*. Idaho Range Livestock Symposium Field Tour. Challis, ID, 22 April 2016. **(Invited)**.
- Sprinkle, J. E. 2016. *Using monitoring data for adaptive management*. Idaho Range Livestock Symposium. Marsing, ID (19 April 2016), Twin Falls, ID (20 April 2016), and Challis, ID (21 April 2016). **(Invited)**.
- Hall, J. B. and J. E. Sprinkle. 2016. *The ruminant animal*. Lemhi County Ag Days, Salmon, ID, 3 presentations made by Sprinkle, 1 by Hall, Hall developed teaching materials, 17 March 2016. **(Invited)**.
- McClaran, M., M. Crimmins, J. Brugger, K. Hawkes, D. Tolleson, L. Howery, J. E. Sprinkle, and G. Ruyle. 2016. *Improving livestock management during drought on the Tonto National Forest: Workshop 3*. Assisted in execution of program. Globe, AZ. 17 February, 2016.

- Sprinkle, J. E. 2016. *Reading the Range: VGS facilitates collaborative range monitoring*. Society for Range Management Symposium: Vegetation GIS Data System: Introduction to the Software and Its Applications for Practical Rangeland Management. Corpus Christi, TX. 3 February 2016. **(Invited)**.
- Sprinkle, J. E. 2016. *Identifying, defining, and resolving resource concerns for NEPA grazing permits*. Grazing Permit Renewal Workshop, Sublette County Conservation District and Wyoming Department of Agriculture. Pinedale, WY, 27 January, 2016, Marbleton, WY, 28 January, 2016. **(Invited)**.
- Sprinkle, J. E. 2016. *Being engaged in the NEPA process as a rancher*. Grazing Permit Renewal Workshop, Sublette County Conservation District and Wyoming Department of Agriculture. Pinedale, WY, 27 January, 2016, Marbleton, WY, 28 January, 2016. **(Invited)**.
- Sprinkle, J. E. 2016. *Using monitoring data for adaptive management*. Grazing Permit Renewal Workshop, Sublette County Conservation District and Wyoming Department of Agriculture. Pinedale, WY, 27 January, 2016, Marbleton, WY, 28 January, 2016. **(Invited)**.
- Sprinkle, J. E. 2016. *Rangeland nutrition*. 2016 Winter Beef School. Cambridge, ID. 14 January, 2016. **(Invited)**.
- Sprinkle, J. E. 2016. *Rangeland nutrition*. 2016 Winter Beef School. Salmon, ID. 12 January, 2016. **(Invited)**.
- Sprinkle, J. E. 2015. *UI Rangeland nutrition research update*. Magic Valley Livestock School. Presentation given remotely to Shoshone, ID participants. 17 December 2015. **(Invited)**.
- Sprinkle, J. E. 2015. *Optimizing cow/calf nutrition with effective rangeland management*. Upper Valley Beef School. Rexburg, ID. 16 December 2015. **(Invited)**.
- Sprinkle, J. E. 2015. *Management factors during gestation and at weaning time: Influences on eating quality and marbling*. 2015 Cowboy Eat and Meat Carcass School. Fort Hall, ID. 13 November 2015. **(Invited)**.
- Sprinkle, J. E. 2015. *Management factors during gestation and at weaning time: Influences on eating quality and marbling*. 2015 Cowboy Eat and Meat Carcass School. Montpelier, ID. 12 November 2015. **(Invited)**.
- Sprinkle, J. E. 2015. *Management factors during gestation and at weaning time: Influences on eating quality and marbling*. 2015 Cowboy Eat and Meat Carcass School. Downey, ID. 11 November 2015. **(Invited)**.
- Sprinkle, J. E. 2015. *Management factors during gestation and at weaning time: Influences on eating quality and marbling*. 2015 Cowboy Eat and Meat Carcass School. Salmon, ID. 28 October 2015. **(Invited)**.
- Sprinkle, J. E. 2015. *Signs, symptoms, and treatment of nitrate toxicity in cattle*. Hay School Hot Topic: High Nitrate Forages. Shoshone, ID. 15 October 2015. **(Invited)**.
- Sprinkle, J. E. 2015. *Determining optimal efficiency of beef cattle for Idaho rangelands*. Moscow, ID. 6 October 2015. **(Invited)**.
- Sprinkle, J. E. 2015. *Setting up and using the VGS software for data monitoring and summary*. Payson, AZ. 28 August 2015. **(Invited; Co-organized & presented entire content)**.



- McClaran, M., J. Brugger, M. Crimmins, K. Hawkes, J. E. Sprinkle, D. Tolleson, L. Howery, and G. Ruyle. 2015. *Improving livestock management during drought on the Tonto National Forest: Workshop 2*. Assisted in organization and execution of program. Payson, AZ. 27 August, 2015.
- Sprinkle, J. E. and D. Tolleson. 2015. *Determining real time mineral consumption by range cows with a solar powered data acquisition system*. V-V Ranch Explorers Day. Mahan Park, AZ. 22 August 2015. **(Invited)**.
- Sprinkle, J. E. and D. Tolleson. 2015. *Determining real time mineral consumption by range cows with a solar powered data acquisition system*. W2012 Field Tour. Mahan Park, AZ. 18 August 2015. **(Co-organized)**.
- McClaran, M., K. Hawkes, D. Tolleson, J. Sprinkle, and L. Howery. 2015. *Beta test of drought grazing calculator with agency employees and ranchers*. Prescott, AZ. 7 August 2015.
- Sprinkle, J. E., M. Kilford, and K. Bedson. 2015. *Rangeland monitoring data collection training for Tonto National Forest interns*. Payson, AZ. 30 July 2015. **(Invited; Co-Organized)**.
- Sprinkle, J. E., K. C. Olson, J. B. Glaze, and J. C. Wenzel. 2015. *Extension Symposium: Value of Low Stress Livestock Handling in Livestock Production Practices*. Western Section, American Society of Animal Science Annual Meeting. Ruidoso, NM. 25 June 2015. **(Co-Chair of Organizing Extension Committee)**.
- Sprinkle, J. E., M. Hemovich, D. Ruppel, and K. Bedson. 2015. *Case Study 1: Using VGS to Assist in Developing a Proposed Action for an Extensive Data Set on the Bar X Ranch*. Using VGS Range Monitoring Database Software to Help Develop Proposed Actions for NEPA. Payson, AZ. 5 June 2015. **(Organized Workshop; Co-presented)**.
- Sprinkle, J. E. and D. Despain. 2015. *Case Study 2: Using VGS to Assist in Developing a Proposed Action for an Extensive Data Set on the H4 Ranch*. Using VGS Range Monitoring Database Software to Help Develop Proposed Actions for NEPA. Payson, AZ. 5 June 2015. **(Organized Workshop; Co-presented)**.
- Sprinkle, J. E. 2015. *Understanding Statistics*. Using VGS Range Monitoring Database Software to Help Develop Proposed Actions for NEPA. Payson, AZ. 5 June 2015. **(Organized Workshop; Presented)**.
- McClaran, M., M. Crimmins, J. Brugger, D. Tolleson, K. Hawkes, L. Howery, J. E. Sprinkle, and G. Ruyle. 2015. *Improving livestock management during drought on the Tonto National Forest: Workshop 1*. Assisted in organization and execution of program. Globe, AZ. 12 March, 2015.
- Faulkner, D., D. Tolleson, and J. Sprinkle. 2015. *Range Livestock Nutrition Workshop 2015*. Payson, AZ. 11 March 2015. **(Co-organizer)**.
- Sprinkle, J. E. 2015. *Overview of ranching in Gila County*. Presentation to a club of Arizona snowbirds. Globe, AZ. 6 March 2015. **(Invited)**.
- Sprinkle, J. E. 2015. *Animal Science Merit Badge*. Pine, AZ. 4 March, 25 February, and February 18, 2015.
- Sprinkle, J. E. 2015. *Change on the range: People, places, and perspectives*. A Climate of Change in AZ: Perspectives of Researchers, Land Owners, and Natural Resource Managers. AZ Section, Society for Range Management Winter Meeting. Tucson, AZ. 15 January 2015. **(Invited)**.
- Sprinkle, J. E. 2014. *Range Monitoring*. Arizona Scitech Gila County Stemfest. Payson, AZ. 4 October 2014. **(Invited)**.

- Hicks, T., and J. E. Sprinkle. 2014. *Linking rangeland monitoring to adaptive management and NEPA project planning*. Public Lands Council Annual Meeting. Durango, CO. 4 September 2014. **(Invited)**.
- Sprinkle, J. E. 2014. *Reading the Range*. Gila County Cattle Growers Annual Meeting. Workmen's Creek, AZ. 13 September 2014. **(Invited)**.
- Sprinkle, J. E., J. Sturla, S. Barker, and C. Brown. 2014. *Case study on the 51 Ranch: Using soils maps and the collaborative process for establishing monitoring sites for NEPA*. Developing and Using Cooperative Monitoring for Adaptive Management and NEPA. Globe, AZ. 8 August 2014. **(Organized Workshop; Co-presented)**.
- Sprinkle, J. E. and J. Fowler. 2014. *Using monitoring data for adaptive management*. Developing and Using Cooperative Monitoring for Adaptive Management and NEPA. Globe, AZ. 8 August 2014. **(Organized Workshop; Presented)**.
- Sprinkle, J. E. 2014. *Statistically valid methodology for determining forage utilization*. Hands on Field Session: Developing and Using Cooperative Monitoring for Adaptive Management and NEPA. Globe, AZ. 8 August 2014. **(Organized Workshop; Presented)**.
- Sprinkle, J. E. 2014. *Data evaluation and interpretation*. Hands on Field Session: Developing and Using Cooperative Monitoring for Adaptive Management and NEPA. Globe, AZ. 8 August 2014. **(Organized Workshop; Presented)**.
- Sprinkle, J. E. and D. Tolleson. 2014. *Range monitoring for adaptive management*. Northern Arizona Cooperative Extension Centennial Celebration. V-V Ranch, Mahan Park, Arizona. 24 July 2014. **(Chair of N AZ Centennial Celebration; Presenter)**.
- Sprinkle, J. E. 2014. *How many cows, how long?* Ranch Financial Restocking Workshop # 2. San Carlos, AZ. 10 April 2014. **(Invited)**.
- Sprinkle, J. E. 2014. *Linking rangeland monitoring to adaptive management and NEPA project planning*. AND *Reading the Range*. Federal Lands Committee Business Meeting, National Cattlemen's Beef Association 2014 Cattle Industry Convention and Trade Show. Nashville, TN. 6 February 2014. **(Invited)**.
- Sprinkle, J. E. 2014. *Predicting forage intake on rangeland*. Navajo Tribal Ranch Quarterly Rancher's Meeting. Twin Arrows, AZ. 17 January 2014. **(Invited)**.
- Sprinkle, J. E. 2014. *Predicting forage intake on rangeland*. Range Animal Nutrition 101 Workshop. Tucson, AZ. 8 January 2014. **(Co-organized Workshop; Presented)**.
- Sprinkle, J. E. 2013. *Reading the Range and the PLC funded 2016 NEPA grant*. Payson, AZ. 17 December 2013. **(Invited)**.
- Sprinkle, J. E. 2013. *Time management*. Gila County Cooperative Extension Faculty and Staff In-service Training. Pine, AZ. 16 December 2013.
- Sprinkle, J. E. 2013. *Reading the Range and the PLC funded 2016 NEPA grant*. Globe, AZ. 11 December 2013. **(Invited)**.
- Sprinkle, J. E., E. Carrillo, D. Luhrsen, and T. Hicks. 2013. *Rangeland monitoring: What's needed?* Rangeland Monitoring for Gila County. Young, AZ. 13 September 2013. **(Organized Workshop; Presented)**.
- Sprinkle, J. E. and D. Luhrsen. 2013. *Short term monitoring: Estimating utilization*. Rangeland Monitoring for Gila County. Young, AZ. 13 September 2013. **(Organized Workshop; Presented)**.

- Sprinkle, J. E., D. Luhrsen, and T. Hicks. 2013. *Options for rangeland monitoring in Gila County*. Rangeland Monitoring for Gila County. Young, AZ. 13 September 2013. **(Organized Workshop; Presented)**.
- Sprinkle, J. E., D. Luhrsen, and D. Tolleson. 2013. *Forage utilization methods: Landscape appearance method; USFS Utilization Gauge*. Hands on Field Session: Rangeland Monitoring for Gila County. Young, AZ. 13 September 2013. **(Organized Workshop; Presented)**.
- Sprinkle, J. E., L. Howery, and D. Tolleson. 2013. *Trend monitoring with touchpad computers and VGS software. USFS Utilization Gauge*. Hands on Field Session: Rangeland Monitoring for Gila County. Young, AZ. 13 September 2013. **(Organized Workshop; Presented)**.
- Sprinkle, J. E. 2013. *Reading the Range*. Gila County Cattle Growers Annual Meeting. Workmen's Creek, AZ. 7 September 2013. **(Invited)**.
- Sprinkle, J. E. 2013. *Careers in Extension AND Hands on activity for determining forage production*. Padre Canyon Ranch Field Day for Hopi Youth and Winslow FFA Youth. Made 4 presentations. Mormon Lake, AZ. 15 August, 2013. **(Invited)**.
- Sprinkle, J. E. 2013. *History and overview of Cooperative Extension*. 2013. Focus Group Visioning for Gila County Cooperative Extension. Globe, AZ. 14 August 2013. **(Organized Facilitated Focus Group; Presented)**.
- Sprinkle, J. E. 2013. *Yes, you can understand statistics (and use them to inform decisions)*. How Do I Use Range Monitoring Data Now That I Have It? Pre-workshop – Arizona Section, Society for Range Management Summer Meeting. Flagstaff, AZ. 7 August 2013. **(Invited)**.
- Sprinkle, J. E. 2013. *Demonstration team leader: Using real life data for making management decisions*. How Do I Use Range Monitoring Data Now That I Have It? Pre-workshop – Arizona Section, Society for Range Management Summer Meeting. Flagstaff, AZ. 7 August 2013. **(Invited)**.
- Sprinkle, J. E., G. Ruyle, and D. Despain. 2013. *Reading the Range*. Western Extension Directors Association 2013 Awards of Excellence. Coeur d'Alene, ID. 17 July 2013. **(Invited Award Winner Speaker)**.
- Gunter, S. A., D. B. Faulkner, A. M. Meyer, E. J. Scholljegerdes, J. E. Sprinkle, S. A. Soto-Navarro, and S. W. Coleman. 2013. *Difficulties Associated with Predicting Forage Intake by Grazing Beef Cows*. Nutrient Requirements of the Beef Female in Extensive Grazing Systems: Considerations for Revising the Beef NRC. American Society of Animal Science Annual Meeting. Indianapolis, IN. 10 July 2013. **(Invited)**.
- Sprinkle, J. E. 2013. *Introduction to Cooperative Extension*. Visioning In-service. University of Arizona County Extension Directors and College of Agricultural and Life Sciences Retreat. Tucson, AZ. 23 May 2013. **(Invited)**.
- Sprinkle, J. E. 2013. *Show lamb and goat selection and nutrition*. 4-H Show Animal Selection, Nutrition, and Showing. Globe, AZ. 4 May 2013. **(Invited)**.
- Sprinkle, J. E. 2013. *Show steer selection, nutrition, and handling*. 4-H Show Animal Selection, Nutrition, and Showing. Globe, AZ. 4 May 2013. **(Invited)**.
- Sprinkle, J. E. 2013. *Swine selection and nutrition*. 4-H Show Animal Selection, Nutrition, and Showing. Globe, AZ. 4 May 2013. **(Invited)**.
- Sprinkle, J. E. 2013. *Show steer selection and nutrition*. Show Steer Nutrition. Globe, AZ. 16 April 2013. **(Invited)**.

### **Honors and Awards: (All Extension Awards Listed; See Service Awards Later)**

- Award of Excellence, Western Extension Directors Association. J. E. Sprinkle, G. B. Ruyle, and Del W. Despain. 2013.
- National Rangeland Research and Development Award, US Forest Service. Co-awardees were K. McReynolds, G. Ruyle, D. Tolleson, and D. Despain. 2013.
- Applied Animal Science Award, Western Section, American Society of Animal Science. J. E. Sprinkle, D. W. Schafer, S. P. Cuneo, D. Tolleson, and R. M. Enns. 2011.
- Western Region Winner, Extension Education Poster Session, National Association of County Agricultural Agents. 2008.
- Professional and Technical Guidance Award, Arizona Section, Society for Range Management. 2007.
- Outstanding Contribution in Rangeland Management, Arizona State Land Department. With D. Fish, R. Grumbles, K. McReynolds, G. Ruyle, and J. Schalau. 2006.
- Extension Award, Western Section, American Society of Animal Science. 2006.
- Applied Animal Science Award, Western Section, American Society of Animal Science. D. D. Kress, D. C. Anderson, J. D. Stevens, E. T. Miller, T. S. Hirsch, J. E. Sprinkle, K. C. Davis, D. L. Boss, D. W. Bailey, R. P. Ansotegui, and M. W. Tess. 2001.
- Regional Finalist, Team Newsletter Communication Award, National Association of County Agricultural Agents. J. Sprinkle, E. Bicknell, T. Noon, C. Reggiardo, D. Perry, and H. Frederick. 2001.
- American Fisheries Society Conservation Award, Wildlife Society Annual Meeting. Little Colorado Spinedace Strategy Team: C. Taylor, M. Whitney, D. Fleishman, J. Gonzales, R. Steed, R. Miller, C. Benedict, J. Sprinkle, P. Knight, and B. Palmer. 2000.

**SCHOLARSHIP ACCOMPLISHMENTS:** (Including scholarship of teaching and learning, artistic creativity, discovery, and application/integration)

### **Publications, Exhibitions, Performances, Recitals: (All Publications Listed)**

**Refereed/Adjudicated:** (i.e. books, book chaps., journals, proc., abstr., etc.; provide citations-author, date, title, publisher)

#### **Handbook: (Peer Reviewed)**

- Sprinkle, J.**, C. Eppler, G. Ruyle, and D. Cook. 2012. *NEPA for Ranchers*. Sponsored by American Sheep Industry, Arizona Cattlemen's Association, Gila County Cattle Growers, National Cattlemen's Beef Association, Public Lands Council, and Tonto Natural Resource Conservation District. 30 pp.
- Tronstad, R., G. Ruyle, and **J. Sprinkle**, Editors. 2002. *Arizona Rancher's Management Guide*. University of Arizona Cooperative Extension.

**Journals:**

- Sprinkle, J. E.**, J. K. Sagers, J. B. Hall, M. E. Ellison, J. V. Yelich, J. R. Brennan, J. B. Taylor, and J. B. Lamb. 2020. Predicting cattle grazing behavior on rangeland using accelerometers. *Rangeland Ecol. Manage.* (In Press).
- Sprinkle, J. E.**, D. W. Schafer, S. P. Cuneo, D. R. Tolleson, and R. M. Enns. 2020. *Effects of a long-acting trace mineral rumen bolus upon range cow productivity.* *Transl. Anim. Sci.* (Accepted).
- Sprinkle, J. E.**, J. B. Taylor, P. E. Clark, J. B. Hall, N. K. Strong, and M. C. Roberts-Lew. 2020. *Grazing behavior and production characteristics among cows differing in residual feed intake while grazing late season Idaho rangeland.* *J. Anim. Sci.*, Issue 1, January 2020, skz371, 9 pp. <https://doi.org/10.1093/jas/skz371>
- Brugger, J., M. P. McClaran, and **J. E. Sprinkle**. 2019. *Translating natural resources on U.S. public lands.* *Ethos: Journal of Anthropology.* 25 pp. DOI: [10.1080/00141844.2018.1456476](https://doi.org/10.1080/00141844.2018.1456476)
- Karl, J. W., and **J. E. Sprinkle**. 2019. *A low-cost livestock GPS collar from commercial off-the-shelf parts.* *Rangeland Ecol. Manag.* 72:954-958. <https://doi.org/10.1016/j.rama.2019.03.003>
- Sprinkle, J. E.**, S. D. Baker, J. A. Church, J. R. Findlay, S. M. Graf, K. S. Jensen, S. K. Williams, C. M. Willmore, J. B. Lamb, and D. W. Hansen. 2018. *Regional assessment of mineral status in Idaho forage and range grasses.* *Prof. Anim. Sci.* 34:494-504.
- Vinyard, J. R., J. B. Hall, **J. E. Sprinkle**, and G. E. Chibisa. 2018. *Effects of maturity at harvest on the nutritive value of Eragrostis tef (Moxie) when fed to beef cattle.* *Journal of Animal Science* 96:3420-3432.
- Society for Range Management Rangeland Assessment and Monitoring Committee. 2018. *Utilization and residual measurement- A tool for adaptive rangeland management.* *Rangelands* 40:146-151.
- Society for Range Management Rangeland Assessment and Monitoring Committee. 2017. *Does size matter? Animal units and animal unit months.* *Rangelands.* February 2017:17-19.
- Bernau, C. R., **J. Sprinkle**, R. Tanner, J. A. Kava, C. Thiel, V. Prileson, and D. Tolleson. 2014. *Twenty years after the Dude Fire: Targeted cattle grazing of weeping lovegrass through the use of protein supplementation.* *Rangelands* 36 (6):15-21.
- Coleman, S. W., S. A. Gunter, **J. E. Sprinkle**, and J. P. Neel. 2014. *Difficulties associated with predicting forage intake by grazing beef cows.* *Journal of Animal Science* 92:2775-2784.
- Sprinkle, J.**, M. Holder, C. Erickson, A. Medina, D. Robinett, G. Ruyle, J. Maynard, S. Tuttle, J. Hays, Jr., W. Meyer, S. Stratton, A. Rogstad, K. Eldredge, J. Harris, L. Howery, and W. Sprinkle. 2007. *Dutchwoman Butte revisited: Examining paradigms for grazing exclusion.* *Rangelands* 29 (6):21-34.

- Sprinkle, J. E.**, S. P. Cuneo, H. M. Frederick, R. M. Enns, D. W. Schafer, G. E. Carstens, S. R. Daugherty, T. H. Noon, B. M. Rickert, and C. Reggiardo. 2006. *Effects of a long acting trace mineral reticulo-rumen bolus upon range cow productivity and trace mineral profiles*. Journal of Animal Science 84:1439-1453.
- Sprinkle, J. E.**, J. W. Holloway, B. G. Warrington, W. C. Ellis, J. W. Stuth, T. D. A. Forbes, and L. W. Greene. 2000. *Digesta kinetics, energy intake, grazing behavior, and body temperature of grazing beef cattle differing in adaptation to heat*. Journal of Animal Science 78:1608-1624.
- Sprinkle, J. E.**, H. S. Hansard, B. G. Warrington, J. W. Holloway, G. Wu, and S. B. Smith. 1998. *Physiological adaptations in adipose tissue of Brahman vs Angus heifers*. Journal of Animal Science 76:743-749.
- Sprinkle, J. E.**, C. L. Ferrell, J. W. Holloway, B. G. Warrington, L. W. Greene, G. Wu, and J. W. Stuth. 1998. *Adipose tissue partitioning of limit-fed beef cattle and beef cattle with ad libitum access to feed differing in adaptation to heat*. Journal of Animal Science 76:665-673.
- Sprinkle, J. E.**, D. D. Kress, D. E. Doornbos, D. C. Anderson, M. W. Tess, R. P. Ansotegui, B. E. Olson, and N. J. Roth. 1995. *Chromic oxide contamination of pasture previously used in marker studies*. Journal of Range Management 48:194-197.

#### **Proceedings: (Peer Reviewed)**

- Sprinkle, J. E.**, M. J. Ellison, J. B. Hall, J. V. Yelich, C. M. Willmore, and J. R. Brennan. 2019. *Are low residual feed intake cows adapted to rangelands?* Transl. Anim. Sci. 3:1797-1801. DOI: 10.1093/tas/txz101
- Sprinkle, J. E.**, J. K. Sagers, J. B. Hall, M. J. Ellison, J. V. Yelich, J. R. Brennan, J. B. Taylor, and J. B. Lamb. 2019. *Grazing behavior and production for cattle on differing late-season rangeland grazing systems with or without protein supplementation*. Transl. Anim. Sci. 3:1792-1796. DOI: 10.1093/tas/txz100
- Sprinkle, J. E.**, J. B. Taylor, P. E. Clark, M. C. Roberts-Lew, and J. B. Hall. 2016. *Grazing behavior and production characteristics among cows differing in residual feed intake while grazing late season Idaho rangeland*. Proc. West. Sec. Amer. Soc. Anim. Sci. 67:1-5.
- Dal Molin, T., D. Tolleson, **J. Sprinkle**, M. Sprinkle, D. Schafer, and B. McMurry. 2012. *Remote monitoring of individual animal supplement intake by range cattle*. Proc. West. Sec. Amer. Soc. Anim. Sci. 63:328-332.
- Sprinkle, J. E.**, D. W. Schafer S. P. Cuneo, D. Tolleson, and R. M. Enns. 2011. *Effects of a long acting trace mineral rumen bolus upon range cow productivity*. Proc. West. Sec. Amer. Soc. Anim. Sci 62:349-353.
- Whittier, J. C., R. W. Ellis, D. Colburn, M. Fisher, M. Jarosz, S. P. Porter, and the Western Beef Resource Committee. 2008. *CSUBEEF.COM as a web resource for disseminating beef cattle educational information and for on-line access to the Cattle Producers Library*. Proc. West. Sect. Am. Soc. Anim. Sci. 59:133-136.

- Sprinkle, J.**, M. Holder, C. Erickson, A. Medina, D. Robinett, G. Ruyle, J. Maynard, S. Tuttle, J. Hays, Jr., W. Meyer, S. Stratton, A. Rogstad, K. Eldredge, J. Harris, L. Howery, and W. Sprinkle. 2006. *Dutchwoman Butte revisited: Examining paradigms for livestock grazing exclusion*. Proc. West. Sec. Amer. Soc. Anim. Sci 57:169-172.
- Sprinkle, J. E.**, S. P. Cuneo, H. M. Frederick, R. M. Enns, D. W. Schafer, G. E. Carstens, L. J. Slay, S. R. Daughtery, T. H. Noon, B. M. Rickert, and C. Reggiardo. 2004. *Effects of a long-acting trace mineral bolus upon range cow and calf trace mineral profiles*. Proc. West. Sec. Amer. Soc. Anim. Sci. 55:357-361.
- Sprinkle, J. E.**, S. P. Cuneo, H. M. Frederick, R. M. Enns, D. W. Schafer, G. E. Carstens, L. J. Slay, S. R. Daughtery, T. H. Noon, B. M. Rickert, and C. Reggiardo. 2004. *Effects of a long-acting trace mineral bolus upon range cow productivity*. Proc. West. Sec. Amer. Soc. Anim. Sci. 55:362-366.
- Kress, D. D., D. C. Anderson, J. D. Stevens, E. T. Miller, T. S. Hirsch, **J. E. Sprinkle**, K. C. Davis, D. L. Boss, D. W. Bailey, R. P. Ansotegui, and M. W. Tess. 2001. *Calf weight/cow weight ratio at weaning as a predictor of beef cow efficiency*. Proc. West. Sec. Amer. Soc. Anim. Sci. 52:130-132.
- Sprinkle, J. E.**, E. J. Bicknell, T. H. Noon, C. Reggiardo, D. F. Perry, and H. M. Frederick. 2000. *Variation of trace minerals in forage by season and species and the effects of mineral supplementation upon beef cattle production*. Proc. West. Sec. Amer. Soc. Anim. Sci. 51:276-280.
- Sprinkle, J. E.**, J. W. Holloway, B. G. Warrington, W. C. Ellis, J. W. Stuth, T. D. A. Forbes, and L. W. Greene. 1997. *Digesta kinetics and energy intake of grazing beef cattle differing in adaptation to heat*. Proc. West. Sec. Amer. Soc. Anim. Sci. 48:133-136.
- Sprinkle, J. E.**, C. L. Ferrell, J. W. Holloway, L. W. Greene, and G. Wu. 1996. *Adipose tissue dynamics of limited-fed and full-fed beef cattle differing in adaptation to heat*. Proc. West. Sec. Amer. Soc. Anim. Sci. 47:320-323.
- Sprinkle, J. E.**, B. G. Warrington, G. D. Hufstedler III, J. W. Stuth, T. D. A. Forbes, L. W. Greene, G. Wu, and W. C. Ellis. 1996. *Adipose tissue dynamics of grazing beef cattle differing in adaptation to heat*. Proc. West. Sec. Amer. Soc. Anim. Sci. 47:66-69.
- Sprinkle, J. E.**, H. S. Hansard, M. R. Guzman, B. G. Warrington, J. W. Holloway, G. Wu, and S.B. Smith. 1994. *Physiological adaptations in adipose tissue of Bos indicus vs. Bos taurus cattle*. Proc. West. Sec. Amer. Soc. Anim. Sci. 45:297-300.
- Sprinkle, J. E.**, D. D. Kress, D. E. Doornbos, D. C. Anderson, M. W. Tess, R. P. Ansotegui, B. E. Olson, and N. J. Roth. 1992. *Fecal output of different biological types of beef cattle throughout a production year*. Proc. West. Sec. Amer. Soc. Anim. Sci. 43:31-34.

#### **Bulletins (Peer Reviewed Extension Publications)**

- Sprinkle, J.**, S. Arispe, and D. Macon. 2019. *Determining stocking rates on rangeland*. Western Beef Resource Committee Cattle Producers Handbook. (Accepted).

- Hawkes, K. L., M. P. McClaran, J. Brugger, M. A. Crimmins, L. D. Howery, G. B. Ruyle, **J. E. Sprinkle**, and D. R. Tolleson. 2018. *Guide to co-developing drought preparation plans for livestock grazing allotments on Southwest National Forests*. Arizona Cooperative Extension Publication # az1764. 82 pp.
- Sprinkle, J. E.** 2018. *Applying adaptive grazing management*. Pacific Northwest Extension Publication PNW 711. 8 pp.
- Cooke, R. and **J. Sprinkle**. 2017. *How to select and manage replacement heifers*. Western Beef Resource Committee Cattle Producers Handbook 745:1-4.
- Sprinkle, J.** 2015. *Matching forage resources with cow herd supplementation*. Significant revision for Arizona Cooperative Extension Publication # AZ9523. 9 pp.
- Sprinkle, J.** 2015. *Managing nutritional challenges to reproduction*. Significant revision for Arizona Cooperative Extension Publication # AZ1166. 5 pp.
- Sprinkle, J.** 2015. *Nutritional characteristics of Arizona browse*. Significant revision for Arizona Cooperative Extension Publication # AZ1273. 10 pp.
- Sprinkle, J.** 2015. *Feeding management for show steers*. Significant revision for Arizona Cooperative Extension Publication # AZ1054. 12 pp.
- Sprinkle, J.** 2015. *Feeding management for show lambs*. Significant revision for Arizona Cooperative Extension Publication # AZ1053. 9 pp.
- Sprinkle, J.**, G. Ruyle, C. Eppler, D. Cook, and M. Merrill-Davies. 2012. *National Environmental Policy Act (NEPA) for Ranchers*. Western Beef Resource Committee Cattle Producer's Handbook, 3rd Edition, # 574. 8 pp.
- Sprinkle, J.**, G. Ruyle, C. Eppler, D. Cook, and M. Merrill-Davies. 2012. *Writing your own alternative using NEPA for ranchers*. Western Beef Resource Committee Cattle Producer's Handbook, 3rd Edition, # 575. 4 pp.
- Sprinkle, J.** 2011. *Matching forage resources with cow herd supplementation*. Arizona Cooperative Extension Publication # AZ9523. 8 pp.
- Sprinkle, J.** 2011. *Protein supplementation*. Revision for Arizona Cooperative Extension Publication # AZ1186. 6 pp. Also available in Arizona Ranchers' Management Guide in Range Cattle Nutrition Section:49-58. 2001.
- Sprinkle, J.** 2011. *Supplementation during drought*. Arizona Cooperative Extension Publication # AZ1026. 6 pp.
- Sprinkle, J.** and D. Tolleson. 2011. *Heifer development on rangeland*. Arizona Cooperative Extension # AZ1165. 8 pp.
- Sprinkle, J.** and D. Gunn. 2010. *Supplementation during drought*. Western Beef Resource Committee Cattle Producers Library CL1170. 6 pp.
- Sprinkle, J.** 2010. *Livestock nutrition for small acreages*. Backyards and Beyond, Spring 2010. 2 pp.
- Sprinkle, J.** and D. Bailey. 2006. *How many animals can I graze on my pasture?* University of Arizona Cooperative Extension Publication # AZ1352. 6 pp.
- Sprinkle, J.** and D. Fish. 2002. *Showmanship of project animals*. University of Arizona Cooperative Extension Publication # AZ1277. 7 pp.
- Sprinkle, J. E.** 2001. *Matching forage resources with cow herd supplementation*. Arizona Ranchers' Management Guide in Range Cattle Nutrition Section:37-48.



- Teegerstrom, T., R. Tronstad, and **J. Sprinkle**. 2001. *Modified cash projections*. Arizona Ranchers' Management Guide in Ranch Business Management Section:153-156.
- Tronstad, R., **J. Sprinkle**, and T. Teegerstrom. 2001. *Evaluating management decisions*. Arizona Ranchers' Management Guide in Ranch Business Management Section:157-174.
- Sprinkle, J. E.** 2001. *Supplementation during drought*. Arizona Ranchers' Management Guide in Range Cattle Nutrition Section:59-68. Also available in University of Idaho Cow-Calf Management Guide as Publication # CL1170. 2000. Revised in 2011 as Arizona Cooperative Extension Publication # AZ1026.
- Sprinkle, J. E.** 2001. *Understanding EPD's*. Arizona Ranchers' Management Guide in Genetics and Reproduction Section:17-24. Also available as University of Arizona Cooperative Extension Publication # 196011. 3 pp. 1996.
- Howery, L. D., **J. E. Sprinkle**, and J. E. Bowns. 2000. *A summary of grazing systems used in the Western United States and Canada*. University of Arizona Cooperative Extension Publication # AZ1184. 7 pp. Also available in Arizona Ranchers' Management Guide in Rangeland Management Section:79-88. 2001. Available in University of Idaho Cow-Calf Management Guide as Publication # CL503. 2002.
- Sprinkle, J. E.** 2001. *Heifer development on rangeland*. Arizona Ranchers' Management Guide in Range Cattle Nutrition Section:77-84.
- Sprinkle, J. E.** 2001. *Managing nutritional challenges to reproduction*. Arizona Ranchers' Management Guide in Range Cattle Nutrition Section:69-76.
- Sprinkle, J. E.** 2000. *Crossbreeding systems for Arizona rangelands*. University of Arizona Cooperative Extension Publication # AZ1164. 5 pp. Also available in Arizona Ranchers' Management Guide in Genetics and Reproduction Section:25-28. 2001.
- Sprinkle, J. E.** 1998. *Swine nutrition for show animals*. University of Arizona Cooperative Extension Publication # AZ1055. 3 pp.

#### **Abstracts: (Peer Reviewed)**

- Hall, J. B., **J. E. Sprinkle**, M. Ellison, S. Goddard, B. Taylor, and J. B. Glaze. 2020. *Comparison of range-based and irrigated cow-calf systems – Grazing season performance*. Amer. Soc. Anim. Sci. 23 June 2020. Madison, WI (Virtual).
- Sisson, M. L., **J. E. Sprinkle**, and R. R. Loucks. 2019. *Archiving historic University of Idaho beef cattle mineral study data*. Undergraduate poster presentation, West. Sec. Amer. Soc. Anim. Sci. June 12, 2019. Boise, ID.
- Sprinkle, J. E.**, J. W. Schalau, and G. B. Ruyle. 2008. *Reading the range*. Abstract and Poster. National Association of County Agricultural Agents Annual Meeting and Professional Improvement Conference. July 13-17, 2008. Greensboro, NC.

- Zaimes, G., J. Schalaus, K. McReynolds, **J. Sprinkle**, C. Jones, M. Crimmins, and R. Grumbles. 2008. *Developing the riparian Extension program in Arizona*. Abstract and Poster. Association of Natural Resource Extension Professionals Annual Conference. May 21, 2008. Madison, WI.
- Zaimes, G., K. McReynolds, **J. Sprinkle**, J. Schalaus, B. Hutchinson, M. Nichols, R. Grumbles, and C. Jones. 2006. *A new approach to riparian area education in Arizona*. 5th Natural Resource Extension Professionals Conference. May 14-17, 2006. Park City, UT.
- Sprinkle, J. E.** and B. Gaden. 2005. *A systems approach to beef cattle production in Australia*. Proceedings Western Region County Agents Professional Improvement Conference. Oct. 25-26, 2005. St. George, UT.
- Sprinkle, J. E.**, J. W. Schalaus, G. B. Ruyle, C. K. Jones, and C. D. Warrick. 2002. *Reading the range*. Proceedings Western Region County Agents Professional Improvement Conference. Nov. 18-19, 2002. Las Vegas, NV.
- Schalau, J. W., K. McReynolds, G. Ruyle, L. Howery, **J. Sprinkle**, and D. Fish. 2000. *Rangeland Monitoring in Arizona*. Second Extension Natural Resources Conference. May 16-18, 2000. Lake Tahoe, NV.

**Peer Reviewed/Evaluated:** (i.e. journals, articles, proceedings, abstracts, etc.)

**Abstracts: (Evaluated)**

- Sprinkle, J.** and J. Brennan. 2019. *Monitoring daily livestock foraging activity with accelerometers: Calibration, formula discovery, and final data processing*. Society for Range Management. 12 February 2019, Minneapolis, MN.
- Sprinkle, J.** 2018. *Adaptive management is an examination for discovery*. Society for Range Management. 1 February 2018. Reno, NV.
- Vinyard, J. R., J. B. Hall, **J. E. Sprinkle**, and G. E. Chibisa. 2017. *Effects of feeding Eragrostis tef hay harvested at different stages of maturity on nutrient intake, ruminal fermentation, and nitrogen utilization in beef cattle*. Amer. Soc. Anim. Sci. Annual Meeting. 11 July 2017. Baltimore, MD.
- Hawkes, K. L., M. P. McClaran, J. Brugger, M. A. Crimmins, L. D. Howery, G. B. Ruyle, **J. E. Sprinkle**, and D. R. Tolleson. 2016. *Using co-development to improve livestock management during drought on national forests*. Society for Range Management. 1 February 2016. Corpus Christi, TX.
- Sprinkle, J.** 2016. *Reading the Range: VGS facilitates collaborative range monitoring*. Society for Range Management. 3 February 2016. Corpus Christi, TX.
- Brugger, J. M. P. McClaran, and **J. E. Sprinkle**. 2015. *"Storytelling" natural resource use on U. S. public lands*. Annual Meeting of the American Anthropological Association. November 18-22, 2015. Denver, CO.
- Davis, B., **J. Sprinkle**, R. Tanner, and G. Weller. 2015. *The response of a blue grama-pinyon pine-juniper rangeland to juniper grinding in central Arizona*. In: Proc. BYU-ID Research Creative Works Conf., p. 3.

- Gunter, S. A., D. B. Faulkner, A. M. Meyer, E. J. Scholljegerdes, **J. E. Sprinkle**, S. A. Soto-Navarro, .A., and S. W. Coleman. 2013. *Difficulties associated with predicting forage intake by grazing beef cattle*. Amer. Soc. Anim. Sci. Annual Meeting. 17 July 2014. Indianapolis, Indiana.
- Sprinkle, J.**, G. Ruyle, and M. Crimmins. 2011. *Change on the range: Ten years of rangeland monitoring on the Tonto National Forest*. Society for Range Management Annual Meeting. 9 February 2011. Billings, MT.
- Thiel, C., **J. Sprinkle**, D. Tolleson, J. Kava, V. Prileson, and R. Tanner. 2009. *Protein supplement placement affects utilization of weeping lovegrass by cattle in central Arizona*. Society for Range Management meetings. Feb. 9-12, 2009. Albuquerque, NM.
- Jones, C. K., **J. E. Sprinkle**, and L. D. Howery. 2001. *The Tonto Weed Management Area in Central Arizona: Lessons Learned Along the Way*. Society for Range Management Annual Meeting. Feb. 17-23, 2001. Kailua-Kona, HI.
- Sprinkle, J. E.**, J. W. Holloway, B. G. Warrington, T. D. A. Forbes, J. W. Stuth, W. C. Ellis, and L. W. Greene. 1996. *Grazing behavior among cattle differing in adaptation to heat*. Third Grazing Livestock Nutrition Conference. July 18-19, 1996. Custer, SD.

**Other:** (reports, proceedings, papers, citations and references, performances)

**Workbook:**

- Sprinkle, J.** and J. Brennan. 2019. *Using 3-axis accelerometers to determine grazing activity*. 16 pp. Available online at <https://maine.box.com/s/g8vkkrjaexyzi9r6w0xn2gw62c5lm63u>
- Sprinkle, J.** Editor. 2006. *University of Arizona Range Livestock Nutrition School*. Conference Proceedings. Nov. 28, 29 and Dec. 11, 2006. Snowflake, Camp Verde, and Benson, Arizona. 488 pp.
- Sprinkle, J. E.** 2000. *University of Arizona Range Livestock Nutrition School*. Editor. Principal authors: **J. E. Sprinkle**, A. Meen, R. Grumbles, D. Rice, and H. M. Frederick. University of Arizona Cooperative Extension. 214 pp. Author of 106 pp. of the workbook.
- Teegerstrom, T., R. Tronstad, **J. Sprinkle**, B. Kattnig, J. Foraker, M. Schneider, A. Groseta, D. Moroney, J. Elliot, D. Cox, L. Howery, and R. Grumbles. 1999. *Planning for Profitability*. The University of Arizona Ranch Management School. 200 pp.
- Sprinkle, J. E.**, B. Kattnig, L. Ffolliott, R. Tronstad, L. Howery, D. Rice, and T. DeGomez. 1996. *Rancher Application of Computer Spreadsheets*. University of Arizona Cooperative Extension. 182 pp.

**Proceedings:**

- Sprinkle, J.** and D. Tolleson. 2010. *Heifer development on rangeland*. Proceedings 32nd Annual AZ-UT Range Livestock Workshops, Kanab and St. George, UT, April 6-8, 2010. pp. 58-66.

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Part 2: *Saddling and bridling the first time*, (30 mins.), Host.  
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- Steele, V. S. 1995. Producer. *Horse Science: Tack selection and fitting*. Yavapai County Cooperative Extension. Filmed at Cottonwood, AZ.  
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### Web Site:

- Kieren, T. and **J. Sprinkle**. 2003. *Animal sciences: Ranching in North Central Arizona*. Also 6 related web pages as well. Content has been migrated to other sites and altered by AZ Cooperative Extension. Some content still exists at <https://extension.arizona.edu/gila-livestock-resources> .

**Professional Meeting Papers, Workshops, Showings, Recitals:** (provide date and location)

**Patents:** (provide title/description, patent number and date)

**Grants and Contracts Awarded:** (provide principal and co investigators, title, sponsor, funding dates, amount)

**(Only Grants from 2013 to 2020 Listed)**

**Sprinkle, J.** and A. Hulet. 2020. *Grazing behavior for cattle engaged in targeted grazing of cheatgrass*. U. S. Forest Service, Caribou-Targhee National Forest, \$29,965. 2020-2024. (50% effort).

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**Sprinkle, J. E.** and J. B. Hall. 2020. *Maternal influences upon calf adaptability to rangeland*. Mary Turner Livestock Research Endowment, Department of Animal Veterinary & Food Sciences, University of Idaho. \$11,000. 2020-2021. (50% effort).

**Sprinkle, J. E.** *Extension Support Endowment*. University of Idaho Cooperative Extension, Travel grant to attend Western Section, American Society of Animal Science Annual Meeting. \$500. 2020.

**Sprinkle, J. E.** *Department of Animal and Veterinary Science*. Supplemental Travel. \$200. 2020.

**Sprinkle, J. E.** *Department of Animal and Veterinary Science*. Technology upgrade for projector screen. \$177. 2020.

**Sprinkle, J. E.** *UI Extension*. Partial scholarship for Video Boot Camp. \$140 + \$300 equipment. 2020.

Winford, E., **J. Sprinkle**, A. Kolok, M. Strickland, and R. Findlay. *Mink Creek Watershed water sampling project*. U. S. Forest Service, Caribou-Targhee National Forest, \$25,153. 2019-2020. (25% effort).

Hulet, A., K. Lee, K. Launchbaugh, **J. Sprinkle**, and E. Winford. *Dormant season grazing to reduce cheatgrass and promote perennial bunchgrasses*. U.S. Forest Service, Intermountain Region, \$431,308. 2019-2024. (10% effort).

Arispe, S., A. Hulet, N. Glenn, B. Perryman, D. Johnson, B. Schultz, S. Jensen, **J. Sprinkle**, and L. Henderson. *Fine Fuels Management to Improve Wyoming Big Sagebrush Plant Communities Using Dormant Season Grazing: Equipping Rangeland Managers with Skills and Science-Based Information to Promote a Healthy Sagebrush Steppe*. USDA National Institute of Food and Agriculture, Critical Agricultural Research & Extension, \$299,797. 2019-2022 (5% effort).

Hall, J. B., M. Ellison, G. Chibisa, and **J. Sprinkle**. \$4,900. *Impact of grazing high nitrate forages on cattle performance and circulating methemoglobin concentrations*. Mary Turner Endowment, University of Idaho Animal & Veterinary Science. 2019.

- Sprinkle, J. E.** *Extension Support Endowment*. University of Idaho Cooperative Extension, Travel grant to attend Society for Range Management Annual Meeting. \$500. 2019.
- Sprinkle, J. E.** *University of Idaho internship*. University of Idaho Cooperative Extension, \$5,000. 2019. Turned back grant due to inability to secure an outstanding intern in time for summer work.
- Sprinkle, J. E.** *Travel grant to attend W1188 Multistate Research Project: Maintaining resilient sagebrush and rural communities*. Idaho Ag Experiment Station, \$870. 2019.
- Sprinkle, J. E.** *Travel grant to attend W2012 Multistate Research Project: Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes*. Idaho Ag Experiment Station, \$550. 2019.
- Sprinkle, J. E.** *Technology upgrade*. University of Idaho Cooperative Extension, \$715. 2019.
- Sprinkle, J. E.** *Rock Creek Ranch travel grant*. University of Idaho Rangeland Center, \$400. 2018. (100% effort).
- Sprinkle, J. E.** *Extension Support Endowment*. Travel grant to attend Society for Range Management Annual Meeting. \$500. 2018-2019.
- Sprinkle, J. E.** *University of Idaho internship*. University of Idaho Cooperative Extension, \$5,000. 2018. (100% effort).
- Sprinkle, J. E.** *W2012 multistate research group annual meeting*. University of Idaho Ag Experiment Station, \$1,200. 2018. (100% effort).
- Sprinkle, J. E.** *W2012 multistate research group annual meeting*. University of Idaho Animal & Veterinary Science Department, \$600. 2018. (100% effort).
- Sprinkle, J. E., J. B. Hall, M. J. Ellison, C. M. Willmore, and G. E. Chibisa.** *Determining optimal efficiency of beef cattle for Idaho rangelands*. University of Idaho College of Agriculture and Life Sciences, \$16,800 for laboratory analyses. 2016-2020. (80% effort).
- Sprinkle, J. E., J. B. Hall, M. J. Ellison, C. M. Willmore, and G. E. Chibisa.** *Determining optimal efficiency of beef cattle for Idaho rangelands*. University of Idaho, Idaho Experiment Station, \$16,800 for laboratory analyses. 2016-2020. (80% effort).
- Sprinkle, J. E., J. B. Hall, M. J. Ellison, C. M. Willmore, and G. E. Chibisa.** *Determining optimal efficiency of beef cattle for Idaho rangelands*. University of Idaho College of Agriculture and Life Sciences Beef Program of Distinction, \$2,000 for laboratory analyses. 2016-2019. (80% effort).
- Sprinkle, J. E., J. B. Hall, C. M. Willmore, G. E. Chibisa, and M. J. Ellison.** *Determining optimal efficiency of beef cattle for Idaho rangelands*. In-kind laboratory NIRS fecal analyses, Sonora A & M AgriLife Research Center, \$6,000. 2016-2020. (85% effort).
- Sprinkle, J., and S. Jensen.** *Travel grant to support research at Rock Creek Ranch*. University of Idaho Rangeland Center, \$1,500. 2017. (60% effort).
- Sprinkle, J. E.** *Travel grant to attend W2012 Multistate Research Project: Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes*. Idaho Ag Experiment Station, \$500. 2017.
- Sprinkle, J. E.** *Travel grant to attend W506 Multistate Research Project: Using science-based solutions in conservation of threatened and endangered species: Sage-grouse case study*. Idaho Ag Experiment Station, \$1,000. 2017.

- Sprinkle, J. E.** *Travel grant to attend WDC40 Multistate Research Project: Endangered species science and policy.* Idaho Ag Experiment Station, \$1,000. 2017.
- Sprinkle, J. E.** *Technology upgrade for two touchpad field computers.* University of Idaho Cooperative Extension, \$6,800. 2016. (100% effort).
- Sprinkle, J. E.** *Grazing collar construction.* University of Idaho Animal & Veterinary Sciences Department, \$5,400. 2016. (100% effort).
- Sprinkle, J. E.** J. B. Hall, M. J. Ellison, C. M. Willmore, and G. E. Chibisa. *Hatch/W2012 Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes.* University of Idaho Ag Experiment Station Hatch/Multistate Project # IDA01549/W2012, 2016-2019.
- Sprinkle, J. E.,** J. K. Sagers, J. B. Hall, M. J. Ellison, J. B. Taylor, and J. B. Lamb. *Determining optimal efficiency of beef cattle for Idaho rangelands.* Industry grant of in-kind donation of protein supplement for research project, Furst-McNess Company, \$1,800. 2016-2017. (80% effort).
- Sprinkle, J. E.,** M. J. Ellison, and C. M. Willmore. *Travel grant to attend W2012 Multistate Research Project: Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes.* Idaho Ag Experiment Station, \$1,500. 2016.
- Sprinkle, J. E.** and J. D. Wulfhorst. *Travel grant to attend W506 Multistate Research Project: Using science-based solutions in conservation of threatened and endangered species: Sage-grouse case study.* Idaho Ag Experiment Station, \$1,000. 2016.
- Sprinkle, J.,** S. Baker, J. Church, R. Findlay, S. Graf, S. Jensen, S. Williams, and C. Willmore (co-investigators in alphabetical order). *Regional assessment of mineral status in forage & range grasses.* Idaho Cooperative Extension Critical Issues Grant, \$4,990. 2016 – 2017. (65% effort).
- Sprinkle, J.** *Regional assessment of mineral status in forage & range grasses.* Industry matching grant, Micronutrients, \$1,000, 2016-2017. (100% effort).
- Sprinkle, J.** *Regional assessment of mineral status in forage & range grasses.* Industry matching grant, Furst-McNess Company, \$500, 2016-2017. (100% effort).
- Sprinkle, J.** *Reading the Range.* X4 Ranch, \$400. 2016. (100% effort).
- Sprinkle, J.** and J. Wenzel. *Extension Symposium: Value of low stress livestock handling in livestock production practices.* Western Section, American Society of Animal Science, Ruidoso, NM. Industry sponsorship for \$3,000 from NCBA-BQA, Boehringer Ingelheim, NM Beef Council, NMSU, and the University of Arizona. June 25, 2015. (50% effort).
- Sprinkle, J.** *Tonto Natural Resources Conservation District range monitoring contribution agreement.* Tonto National Forest, \$25,000. 2014-2017. (100% effort).
- McClaran, M., J. Brugger, M. Crimmins G. Ruyle, **J. Sprinkle,** D. Tolleson, and L. Howery. *Using a co-development process to improve, integrate, and encourage the use of drought information and adaptive management of livestock grazing on National Forests.* National Oceanic and Atmospheric Administration, \$285,644. 2014-2017. (5% effort).

- Sprinkle, J.**, T. Hicks, T. Martin, C. Denton, B. Lambeth, D. Tolleson, E. Gipson, M. Hemovich, D. Luhrsen, N. Bosworth, T. Wheeler, G. Ruyle, D. Despain, and J. Maynard. *Linking rangeland monitoring to adaptive management & NEPA project planning*. Public Lands Endowment Trust, \$50,000. 2014-2015. (57% effort).
- Sprinkle, J.** *Reading the Range*. Arizona Community Foundation, \$2,500. 2014. (100% effort).
- Sprinkle, J.** *USDA-NIFA Southwest Region animal agriculture & climate change project*, \$600, Travel grant for Professional Development to attend Cattle & Climate Workshop. 2014. (100% effort).
- Sprinkle, J.** and D. Tolleson. *Range Livestock Nutrition 101*. Agribusiness Companies, \$300. 2014. (50% effort).
- Sprinkle, J.** and T. Hicks. *Tonto Natural Resources Conservation District range monitoring contribution agreement*. Tonto National Forest, \$25,000. 2013-2015. (50% effort).
- Sprinkle, J.** and T. Hicks. *Tonto Natural Resources Conservation District range monitoring contribution agreement*. Natural Resources Conservation Service Environmental Quality Incentives Program, \$25,000. 2013-2014. (50% effort).
- Sprinkle, J.** *Reading the Range*. Gila County Cattle Growers Association, \$9,200. 2013-2014. (100% effort).
- Sprinkle, J.** *Reading the Range*. Region III US Forest Service, \$5,000. 2013-2014. (100% effort).
- Sprinkle, J.** *Reading the Range*. University of Arizona, \$6,000. 2013-2014. (100% effort).
- Sprinkle, J.** *Travel grant for Western Extension Directors Association award*. University of Arizona, \$1,000. 2013. (100% effort).
- Sprinkle, J.** *Arizona SARE travel grant*. AZ Sustainable Agriculture Funds for Professional Development, \$500. 2013. (100% effort).

**Total Grants for 2013-2020:** \$1,336,879

#### **Honors and Awards:**

#### **SERVICE: (Only Service from 2013 Listed; Except for Awards for which All Listed)**

**Major Committee Assignments:** (National, State, District, County, University, College, Departmental and dates)

National:

- Grazing Behavior In-service, Co-Chair, 2015-2017

Regional:

- Western Experiment Station Directors Multistate Research Project W3012, Optimizing and characterizing sustainable beef cattle production in forage based systems on Western rangelands, Member, First Author on Project Renewal, 2019-present



- Western Experiment Station Directors Multistate Research Project W2012, Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes, Chair, 2017-2018, Secretary, 2016-2017, Member, 2013-2019
- Western Experiment Station Directors Multistate Research Project W1188, Maintaining resilient sagebrush and rural communities, Member, 2018-2020
- Western Experiment Station Directors Rapid Response to Emerging Issue Activity W506, Using science-based solutions in conservation of threatened and endangered species: Sage-grouse case study, Member, 2016-2017
- Western Experiment Station Directors Multistate Research Project WDC40, Endangered species science and policy, Member, 2017
- Western Beef Resource Committee, Member, 2013-present
- Fine Fuels Reduction to Improve Wyoming Big Sagebrush Plant Communities Using Late-Fall Grazing, Member, 2017-present

State:

- Arizona National Livestock Show, Inc., Junior Livestock Judging Contest, Member, 2013
- Arizona National Livestock Show, Inc., Intercollegiate Livestock Judging Contest, Member, 2013

County

- Rangeland Monitoring Round Table, Lemhi County, ID, Member, 2016-2017
- Tonto Natural Resource Conservation District, Advisor, 2013-2015
- Payson FFA Career & Technical Education Program Advisory Committee, Member, 2013-2015
- Tonto National Forest Plan Revision, Ex officio community member, 2014
- Technical Reviewer for Gila County, Environmental Impact Statement for Salt River 6, US Forest Service, Globe Ranger District, 2013
- Technical Reviewer for Gila County Cattle Growers, Phenological Measurements for Monitoring website, 2013

University:

- Candidate for Professor, New Mexico State University, Reviewer, 2020
- Rinker Rock Creek Ranch Grazing Permit Renewal Committee, Co-Leader, 2019-present
- Rinker Rock Creek Ranch Research & Monitoring Committee, Member, 2018-present
- Candidate for Associate Professor & Tenure, New Mexico State University, Reviewer, 2018
- Range Monitoring Subcommittee, Rinker Rock Creek Ranch, Member, 2016-2018
- Idaho Range Livestock Symposium Planning Committee, Member, 2015-present
- Rangeland Center, Member, 2015-present
  - Rangelands Innovations Academy, Member, 2017-2018
  - Fall Forum Planning Committee, Member, 2018

## College:

- Mentoring Committee, Tyanne Roland, Member, 2020
- Grant Reviewer, Idaho SARE Mini-Grants, Idaho Association of County Agricultural Agents, 2019-2020
- Food Production Systems Program Extension Team, Member, 2018-2019
- Forestry, Natural Resources and Water Program Extension Team, Member, 2018-2019
- Peer Reviewer, UI Extension/Ag Experiment Station Publishing, 2 Articles, 1 book, 2018-2020
- University of Idaho Extension & Idaho Experiment Station Publishing, Associate Editor, 2016-present
- Beef Program of Distinction, Member, 2015-2019
  - Goal 1.1B, Increasing Animal Efficiency with genotypic and phenotypic markers, Member, 2015-2019
  - Goal 1.2, Natural Resources Sustainability, Chair, 2015-2019
  - Goal 1.3C, Advanced Management School, Member, 2015-2019
  - Goal 2.2, Pre-harvest Management, Nutrition, and Genetics Effects on Product Quality, Member, 2015-2019
- Extension Advisory Committee, Member, 2017-2020
- Master's Graduate Committee, Alex Laurence-Treynor, College of Natural Resources, Member, 2018-2020
- Cowboy School Planning Committee, Member, 2015
- Arizona Livestock Incident Response Team (ALIRT), Member, 2013-2015
- Northern Arizona Cooperative Extension Centennial, Chair, 2013-2014
- Indian Country Extension, Member, 2013-2014
- Range Livestock Nutrition, Chair, 2013

## Department:

- Promotion and Tenure Committee, Dr. Pedram Rezamand, Chair, 2020
- Search & Screen Committee, Nancy M. Cummings REEC Operations Manager, Member, 2020
- Research Committee, Member, 2020-present
- Awards Committee, Member, 2019-present
- Promotion and Tenure Committee, Member, 2019-present
- 3<sup>rd</sup> Year Review Committee, Dr. Gwinyai Chibisa, Chair, 2018
- Mentoring Committee for Dr. Melinda Ellison, UI Animal and Veterinary Sciences, University of Idaho, Member, 2018-present
- Hatch Proposal Reviewer, Animal & Veterinary Sciences, University of Idaho, 2 Proposals, 2018
- Search & Screen Committee, UI Animal & Veterinary Sciences Department Head, Member, 2017

- Doctoral Graduate Committee, Landon Sullivan, Animal Veterinary & Food Sciences, University of Idaho, Co-Advisor, 2020-present
- Master's Graduate Committee, James Vinyard, Animal & Veterinary Sciences, University of Idaho, Member, 2016-2019
- Doctoral Graduate Committee, Carmen Willmore, Animal & Veterinary Sciences, University of Idaho, Member, 2015-2019
- Doctoral Graduate Committee, Colt Knight, School of Animal and Comparative Biomedical Sciences, University of Arizona, Member, 2013-2016
- Search & Screen Committee, Area Forest Health Extension Agent, Chair, 2014-2015
- Search & Screen Committee, Gila County Cooperative Extension 4-H Youth Development Extension Agent, Chair 2014-2015
- Reading the Range, Chair, 2013-2015
- Search & Screen Committee, Area Family/Consumer Sciences Extension Agent, Member, 2014
- Visioning Committee, Arizona Cooperative Extension, Co-Chair, 2013-2014
- Extension Committee, School of Animal and Comparative Biomedical Sciences, Member, 2013-2014
- Arizona Cooperative Extension Annual Peer Review Committee, Member, 2013-2014

**Professional and Scholarly Organizations** (including memberships, committee assignments, editorial services, offices held and dates)

- Rangeland Assessment and Monitoring Committee, Society for Range Management, Voting Member, 2016-present
- Livestock Foraging Behavior Committee, Society for Range Management, Workshop Proposal Subcommittee, Member, 2018-2019
- Livestock Foraging Behavior Committee, Society for Range Management, Member, 2017-present
- Idaho Section, Society for Range Management, Member, 2016-present
- Society for Range Management, Member, 2013-present
- Rangeland Ecology and Management, Peer Reviewer, 3 submitted manuscripts, 2014-2016
- Rangelands, Peer Reviewer, 2 submitted manuscripts, 2017-2020
- Arizona Section, Society for Range Management, 2013-2015
- American Society of Animal Science, Member, 2013-present
- American Society of Animal Science, Reviewer, Beef Species Abstracts, 2017
- Journal of Animal Science, Peer Reviewer, 1 submitted article, 2017
- Translational Animal Science, Peer Reviewer, 3 submitted articles, 2017-2020
- Professional Animal Scientist, Peer Reviewer, 7 submitted manuscripts, 1 secondary review, 2016-2018
- Applied Animal Science, Peer Reviewer, 3 submitted manuscripts, 3 secondary reviews, 2019-2020

- Computers and Electronics in Agriculture, 1 manuscript, 1 secondary review, 2020
- Journal of Agricultural Science, Cambridge, Peer Reviewer, 1 submitted manuscript, 2016
- Journal of Arid Environments, Peer Reviewer, 1 submitted manuscript, 2020
- Animal Reproduction Science, Peer Reviewer, 1 submitted manuscript, 2020
- Cattle Producers Handbook, Western Beef Producers Committee, Peer Reviewer, 2 submitted manuscripts, 2016
- NMSU Extension Publications, Peer Reviewer, 4 submitted articles, 2016-2020
- Oregon State University Extension Publication, Peer Reviewer, 1 submitted article, 2019
- Progressive Cattlemen, Peer Reviewer, 3 submitted articles, 2016-2017
- National Association of County Agricultural Agents, 2013-2016
- Arizona Agriculture Extension Association, Member, Animal Sciences Committee Chair, 2014-2015, Member, 2013-2015
- Graduate Student Paper Competition Committee, Western Section, American Society of Animal Science, Member, July 2019-present
- Extension Committee, Western Section, American Society of Animal Science, Chair, 2017-2018
- Extension Committee, Western Section, American Society of Animal Science, Co-Chair, 2015; Review abstracts for annual meeting, 2013 and 2015
- Strategic Planning Committee, Western Section, American Society of Animal Science, Member, 2015
- Extension Committee, Western Section, American Society of Animal Science, Moderator and Reviewer of Section, 2013
- Alberta Beef Producers, Grant Reviewer, 2014

**Outreach Service:** (Including popular press, interview articles, newspaper articles, workshops-seminars-tours organized, Extension impact statements)

### **Popular Press:**

- Sprinkle, Jim.** 2020. *Online drought and climate assessment tools to assist with management*. Line Rider Magazine, October 2020. 6 pp. 1,000 circulation.
- Sprinkle, J., J. Sagers, J. Hall, M. Ellison, J. Yelich, J. Brennan, J. B. Taylor, and J. Lamb.** 2020. *Grazing and protein supplementation in late-season rangeland*. Ag Proud Magazine. September 2020. 2 pp. 46,629 circulation.
- Sprinkle, J., E. Winford, N. Vishwanath, A. Kolok, M. Strickland, R. Findlay, and J. Lucas.** 2020. *U of I conducts E. coli stream contamination study*. Line Rider Magazine, June 2020. 4 pp. 1,000 circulation.
- Sprinkle, J., and B. Glaze.** 2019. *Beef cattle resource information from the University of Idaho*. Line Rider Magazine, October 2019. 5 pp. 1,100 circulation.

- Sprinkle, J.,** and J. B. Hall. 2019. *Cow size, milk production, and rangeland adaptability*. Line Rider Magazine, June 2019. 3 pp. 1,100 circulation.
- Sprinkle, J.** 2019. *Beef cow efficiency on rangeland*. Progressive Cattle, 21 December 2018. (Peer Reviewed). 44,917 circulation.
- Sprinkle, J.** 2018. *Can late season rangeland grazing work for you?* Line Rider Magazine, October, 2018. 4 pp. 1,100 circulation.
- Sprinkle, J.** 2018. *UI research examines cow efficiency*. Line Rider Magazine, June, 2018. 4 pp. 1,100 circulation.
- Sprinkle, J.** 2018. *Determining what minerals your cows really need*. Progressive Cattlemen, January 2018. (Peer Reviewed). 44,917 circulation.
- Sprinkle, J. E.** *E. Coli shedding prevalence among grazing beef cattle*. Line Rider Magazine, October 2017. 4 pp. 1,100 circulation.
- Sprinkle, J.,** S. Baker, J. Church, R. Findlay, S. Graf, S. Jensen, S. Williams, and C. Willmore. 2017. *Regional assessment of mineral status in forage and regional grasses*. Line Rider Magazine, June 2017. 2 pp. 1,100 circulation.
- Sprinkle, J.** 2016. *Documenting livestock use on rangelands*. Line Rider Magazine, December 2016. 2 pp. 1,100 circulation.
- Sprinkle, J.** 2016. *Evaluating cow efficiency on late season rangeland*. Line Rider Magazine, October 2016. 3 pp. 1,100 circulation.
- Hall, J., **J. Sprinkle,** and M. Ellison. *Rock Creek Ranch research up and running*. Line Rider Magazine, September, 2016. 3 pp. 1,100 circulation.
- Sprinkle, J.** 2016. *Applying adaptive grazing management on rangeland*. Line Rider Magazine, June 2016. 2 pp. 1,100 circulation.
- Sprinkle, J.** 2013. *Beef cattle mineral supplementation on Arizona rangelands*. Arizona Cattlelog. Dec. 2013. 3 pp.

### **Extension Impact Statement (Peer Reviewed)**

- Findlay, J. R., **J. Sprinkle,** S. Baker, J. Church, S. Williams, C. Willmore, S. Jensen, and S. Graf. 2017. *Assessment of the mineral status of forage and range grass in Idaho*. Impact Statement. Available at: <https://www.uidaho.edu/extension/about/impacts> . Accessed 13 July 2018.

### **Interview Articles:**

- Sprinkle, J., E. Winford, R. Mickelsen, A. Kolok, J. Lucas, and K. Obele. *Testing shows recreationists caused E. Coli problems in Mink Creek previously blamed on cattle*. By Steve Stuebner, Idaho State Journal, October 9, 2020.
- Winford, E., J. Sprinkle, R. Mickelsen, A. Kolok, J. Lucas, and K. Obele. *Mink Creek water quality*. The Current, Vol. 3, Issue 3, Idaho Water Resources Research Institute, By Maria Ortega, December 2020. 3 pp.
- Sprinkle, J. *Cattle-efficiency study takes to open range*. By Brad Carlson, 23 September 2019. 3 pp. 23,000 circulation.
- Tanner, R., J. Sprinkle (Second person referral by Tanner; featured in article), and A. Hall. *Reading the range aids ranchers, Forest Service*. By Alexis Bechman, Payson Roundup, December 2, 2016.

Sprinkle, J., C. Willmore, and J. Hall. *Rock Creek Perseve – On the path of a cow patty*. By Karen Bossick, Eye on Sun Valley, July 10, 2016.

Sprinkle, J., B. Jacobsen, and C. Wichmann. *Importance of range monitoring highlighted*. By Jason Campbell, Western Livestock Journal, May 6, 2016.

**Community Service:** (non-academic unrelated to employment)

Cubmaster, Pack 0116, Salmon District, Grand Teton Council, 2016-2017

Scoutmaster, Troop 7652, Zane Grey District, Grand Canyon Council, 2013-2015

**Honors and Awards: (All Service Awards Listed)**

Gila County Wrangler of the Year, Globe-Miami Regional Chamber of Commerce and Economic Development Corporation. Awarded to University of Arizona Drought Team (continued on this grant until 2018). 2018.

V-V Vaquero, University of Arizona V-V Experimental Ranch. 2015.

Citation, National FFA Organization. 2013.

Citation, National FFA Organization. 2010.

Distinguished Service Award, National Association of County Agricultural Agents. 2008.

Silver Beaver Award, Boy Scouts of America. 2006.

Gila County Wrangler of the Year, Globe-Miami Regional Chamber of Commerce and Economic Development Corporation. 2005.

Achievement Award, National Association of County Agricultural Agents. 2002.

**PROFESSIONAL DEVELOPMENT:** (workshops and seminars attended) **(Since 2013)**

**Teaching:**

- Power Point Polling with Turning Point Technology, Globe, AZ, February 4, 2014

**Scholarship:**

- Increasing the Genetic Potential of Commercial Beef Production: A Historical and Future Look at Genetic Programs at the US Meat Animal Research Center, American Society of Animal Science Virtual Webinar, Dec. 3, 2020
- Developing Lifetime Immunity and Reproductive Efficiency, Elanco Animal Health & Mountain River Veterinary Hospital, Virtual Webinar, Nov. 12, 2020
- Feed Intake Tech: Supplement Intake Behavior, Beef Cattle Performance, & Environmental Interactions, Virtual Webinar, C-Lock, Oct. 27, 2020
- How Does Grazing Management Influence Plant Productivity? University of Nebraska-Lincoln Beef Watch, Virtual Webinar, Oct. 6, 2020

- Grazing Quality Forages: Practical Soil Health, Ward Labs, Virtual Webinar, Oct. 5, 2020
- DNA Study of Longevity of Southern Utah Livestock, 13<sup>th</sup> Annual Cowman's Reproduction Workshop, University of Arizona & Utah State University, Virtual Webinar Recording, Oct. 5, 2020
- Review, Reimagine, Reposition, 2020 Rangeland Fall Forum, UI Rangeland Center, Virtual Webinar, Oct. 1-2, 2020
- Building Resilience in Your Herd Through Nutrition, Ward Labs, Virtual Webinar, Sept. 21, 2020
- What They Forget to Teach You in Stats, University of Idaho AVS Graduate Student Seminar, Virtual Webinar, Sept. 4, 2020
- Neogen Beef Cattle Marker Assisted Selection Webinar, Aug. 18, 2020
- W3012 Multistate Research Project Annual Meeting, Cal-Poly Obispo, Virtual Webinar, July 30, 2020
- Technical Analysis, Chicago Mercantile Exchange, Web Based Training, July 15, 2020
- Marketing with Futures Markets, 2020 Farm Management Team In-Service Training Series, University of Idaho, Virtual Classes (6 sessions, 1.5 hr. each), July 14-Aug. 18, 2020
- Introduction to Futures, Chicago Mercantile Exchange, Web Based Training, July 14, 2020
- 2020 Idaho Cattle Association Summer Roundup, Burley, ID, June 22-23, 2020
- Riparian Management and Research on the Rinker Rock Creek Ranch: A Webinar & Virtual Tour, UI Rangeland Center, Virtual Webinar, June 19, 2020
- Competition for Feeding Space at an Automated Supplement Feeder, C-Lock Company, Virtual Webinar, June 17, 2020
- NIRSC Forage Analysis Webinar Series Part 3: NIR vs Wet Chemistry in Forage Analysis: Repeatability and Reproducibility, NIRS Consortium, Virtual Webinar, June 2, 2020
- Improving Irrigated Pasture, UI Sheep & Goat Webinar Series, Virtual Webinar, May 21, 2020
- Cell-based Meat: The Need to Assess Holistically, American Society of Animal Science, Virtual Webinar, May 21, 2020
- Assessing Outcomes of Selection Using Genetic Panels for Prediction of Carcass Quality in Beef Cattle, University of Idaho AVS Graduate Student Thesis Presentation, Zoom Meeting, April 17, 2020
- Green Feed Webinars, Parts I, II, and III, C-Lock Company, Virtual Webinars, April 15, 22, and 29, 2020
- UI Video Boot Camp Training, Caldwell, ID, Mar 18-19, 2020
- Idaho Rangeland Conservation Partnership Annual Meeting, Boise, ID, Jan. 14, 2020
- Idaho Range Livestock Symposium, Marsing, ID, January 6, 2020
- Lemhi County Winter School, Salmon, ID, Dec. 11, 2019

- Life is Better on the Ranch, Idaho Cattle Association Convention, Sun Valley, ID, Nov. 11-13, 2019
- Fall Forum Field Tour, Rangeland Center, Owyhee County, ID, October 11, 2019
- Science, Policy and Perspectives: Collaborating in the Owyhees, 2019 Rangeland Fall Forum, Rangeland Center, Marsing, ID, October 10, 2019
- Producer Meeting, Simplot and Elanco Animal Health, Salmon, ID, August 21, 2019
- W3012 Multistate Research Project Annual Meeting and Tour, Havre, MT, July 24-26, 2019
- American Society of Animal Science Annual Meeting, Austin, TX, July 8-10, 2019
- Summer Roundup, Idaho Cattle Association, Educational Program & Range Tour, Lewiston, ID, June 24-25, 2019
- Western Section, American Society of Animal Science Annual Meeting, Boise, ID, June 11-13, 2019
- Gateway to the Prairie, Society for Range Management Annual Meeting, Minneapolis, MN, February 10-14, 2019
- Idaho Range Livestock Symposium, Twin Falls, ID, January 8, 2019
- Idaho Has More Cowboys, You Just Can't See Them From the Road, Idaho Cattle Association Convention, Sun Valley, ID, November 12-14, 2018
- Fall Forum Field Tour, Rangeland Center, Leadore and Salmon, ID, October 5, 2018
- Decisions Today, Outcomes for Tomorrow, 2018 Rangeland Fall Forum, Rangeland Center, Salmon, ID, October 4, 2018
- UI Nancy M. Cummings REEC Twilight Forage Tour, Carmen, ID, September 6, 2018
- Western Section, American Society of Animal Science Annual Meeting, Bend, OR, June 19-21, 2018
- 2018 Weed Identification Training, Lemhi Cooperative Weed Management Area, Salmon, ID, May 31, 2018
- Genetics of Livestock, Animal & Veterinary Science In-service, Moscow, ID, April 5, 2018
- 2018 Spring Producer Meeting, Mountain River Veterinary Hospital, Salmon, ID, March 22, 2018
- Using the Microbiome to Improve Health and Production in Food-Producing Animals, American Meat Science Association Webinar, February 21, 2018
- Wildlife, Lemhi County Cattlemen's Winter School, Salmon, ID, February 6, 2018
- Empowerment Through Applied Sciences, Society for Range Management Annual Meeting, Reno, NV, January 28-February 1, 2018
- Economics, Lemhi County Cattlemen's Winter School, Salmon, ID, January 16, 2018
- Idaho Range Livestock Symposium, Rexburg, ID, January 12, 2018
- Three Rivers Grazing Conference, Lewiston, ID, January 9, 2018
- Plant Identification In-service, Salmon, ID, December 6, 2017
- Rock Creek Ranch Research Webinar, Online, December 6, 2017



- Good Friends and a Strong Bull Pen, Idaho Cattle Association Convention, Sun Valley, ID, November 13-15, 2017
- Fall Forum Field Tour, Rangeland Center, Area surrounding Boise, ID, October 6, 2017
- A Conversation with Nathan Sayre, Rangeland Fall Forum, Rangeland Center, Boise, ID, October 5, 2017
- W2012 Multistate Research Project Annual Meeting and Tour, Burns, OR, August 8-9, 2017
- Western Section, American Society of Animal Science Annual Meeting, Fargo, ND, July 20-22, 2017
- Promoting Healthy Sagebrush Steppe Landscapes: A Fine Fuels Management Field Day, Jordan Valley, Oregon, May 25, 2017
- First Aid & CPR Training, Salmon, ID, March 31, 2017
- Wildlife & Range Tour, Society for Range Management Annual Meeting, St. George, UT, February 2, 2017
- Redrock and Rangelands, Society for Range Management Annual Meeting, St. George, UT, January 29-February 1, 2017
- Grazing Behavior Inservice, Springdale, UT, January 27-28, 2017
- Idaho Range Livestock Symposium, Salmon, ID, January 10, 2017
- Lemhi County Cattlemen's Winter School, Salmon, ID, January 3, 2017
- The Stakes are Too High to Stay at Home, Idaho Cattle Association Convention, Sun Valley, ID, November 14-16, 2016
- Fall Forum Field Tour, Rangeland Center, Reynold Creek Experimental Watershed, Reynold Creek, ID, October 21, 2016
- Summit to Stream: Managing Watersheds is a Watershed Affair, Rangeland Fall Forum, Rangeland Center, Caldwell, ID, October 20, 2016
- 2016 Public Lands Council Annual Meeting, Boise, ID, September 8, 2016
- US Sheep Experiment Station: 100 Years of Sheep and Range Research; The Next 100 Years of Sheep and Range Research; Production Applications for Improving Sheep Production Efficiency; 2016 Tri-State ID-MT-WY Wool Growers Association Range Tour, Dubois, ID, August 23-25, 2016
- W2012 Multistate Research Project Annual Meeting and Tour, Scottsbluff, NB, August 8-9, 2016
- American Society of Animal Science Joint Annual Meeting, Salt Lake City, UT, July 19-23, 2016
- 5<sup>th</sup> Grazing Livestock Nutrition Conference, Park City, UT, July 18-19, 2016
- Idaho Cattle Association Summer Roundup, Post Falls, ID, June 22-23, 2016
- Photo Monitoring Workshop, Salmon, ID, June 1, 2016
- Performix Plant Opening and Tour, Burley, ID, May 18, 2016
- Idaho Range Livestock Symposium and Field Day, Challis, ID, April 21-22, 2016

- Rangelands and Wildlife, Society for Range Management, Corpus Christi, TX, February 1-3, 2016
- Grazing Permit Renewal Workshop, Sublette County Conservation District, Pinedale, WY, January 27, 2016
- Pacific Northwest Nutrition Conference, Boise, ID, January 18-19, 2016
- 24<sup>th</sup> Biennial Range Beef Cow Symposium, Loveland, CO, November 17-19, 2015
- Forage & Soils Field Tour, Eagle Valley Ranch, Salmon, ID, November 2, 2015
- Rangeland Fall Forum “Fuel-Fire-Future”, Jerome, ID, October 22, 2015
- J. R. Simplot Tour, Grandview, ID, October 16, 2015
- Forage Twilight Tour, Nancy M. Cummings Research Extension Education Center, Salmon, ID, October 1, 2015
- Arizona Section, Society for Range Meeting Summer Meeting, Prescott, AZ, August 6-7, 2015
- Cattlemen’s College, Arizona Cattle Growers Association, Tucson, AZ, July 23, 2015
- Western Section, American Society of Animal Science Annual Meeting, Ruidoso, NM, June 24-26, 2015
- Beef Symposium, Western Section, American Society of Animal Science, Central New Mexico, June 23, 2015
- Managing Diversity, Society for Range Management Annual Meeting, Sacramento, CA, February 2-5, 2015
- A Climate of Change in AZ: Perspectives of Researchers, Land Owners, & Natural Resource Managers, Arizona Section, Society for Range Management, Winter Meeting, Tucson, AZ, January 15-16, 2015
- Workshop on Water Resources and Drought Information in the SW US, Phoenix, AZ, January 8, 2015
- Cattle and Climate Workshop, Stillwater, OK, November 6, 2014
- Multiple Indicator Monitoring (MIM) of Stream Channels & Streamside Vegetation, Tonto Basin, AZ, October 20-24, 2014
- NRCS/Extension Soil Health Inservice, Maricopa, AZ, September 25, 2014
- White Mt. Grassland & Forest Ecosystem Restoration Conference and Field Tour, Show Low, AZ, August 14-15, 2014
- Western Section, American Society of Animal Science Annual Meeting, San Angelo, TX, July 25-27, 2014
- Riparian Field Day on the Tonto National Forest, Mesa and Sunflower, AZ, April 11, 2014
- Celebrating 60 Years of Research at Walnut Gulch, Agricultural Research Service, Tombstone, AZ, March 6-7, 2014
- 29th Annual Southwest Nutrition & Management Conference, Tempe, AZ, February 20, 2014
- Increasing the Health & Wealth of Our Calves, Phoenix, AZ, February 1, 2014

- Managing Rangelands with Federally Listed Species/Opportunities in Rangeland Consulting, Arizona Section, Society for Range Management, Tucson, AZ, January 9-10, 2014
- Babbitt Ranches Land Ethic & Tour of the CO Bar Ranch, Arizona Section, Society for Range Management, Flagstaff, AZ, August 8-9, 2013
- Cattlemen's College, Arizona Cattle Growers Association, Phoenix, AZ, July 25, 2013
- American Society of Animal Science Annual Meeting, Indianapolis, IN, July 16-19, 2013
- Western Section, American Society of Animal Science Annual Meeting, Bozeman, MT, June 19-21, 2013
- Ranching with Drought in the SW: Conditions, Challenges, and Processes to Meet the Challenges, Santa Rita Ranch, Rio Rico, AZ, February 27-28, 2013
- 28<sup>th</sup> Annual Southwest Nutrition and Management Conference, Tempe, AZ, February 21, 2013
- The Future of Rangeland Fire in a Changing World, Society for Range Management, Oklahoma City, OK, February 4-7, 2013
- Old Problems and Better Solutions – Applied Wisdom, Arizona Section, Society for Range Management Winter Meeting, Prescott, AZ, January 23-25, 2013

**Outreach:**

- Digital Measures Reporting Virtual Training, June 16, 2020
- UI Extension Virtual Annual Conference, April 13, 15, 16, 2020
- Extension Annual Conference, University of Idaho Extension, Idaho Falls, ID, March 25-28, 2019
- Extension Annual Conference, Moscow, ID, April 3, 5-6, 2018
- All CALS Day, University of Idaho College of Agriculture and Life Sciences, Moscow, ID, April 4, 2018
- Extension Annual Conference, Burley, ID, April 3-5, 2017
- Extension Annual Conference, Moscow, ID, April 4-6, 2016
- All CALS Day, University of Idaho College of Agriculture and Life Sciences, Moscow, ID, April 5, 2016
- College of Agriculture and Life Sciences & Extension Annual Conference, Tucson, AZ, August 4-5, 2015
- 10 Years of ALIRT & First Responder Workshop, Arizona Animal Livestock Incident Response, Team Training, Tucson, AZ, March 27-28, 2015
- Charting a Course for Agriculture Natural Resources Extension Programs Webinar, Payson, AZ, May 5, 2014
- College of Agriculture & Life Sciences Media Workshop, Tucson, AZ, September 3, 2013
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**Administration/Management:**

- P-Card Security Training, Online Training, Payson, AZ, October 25, 2013

**Required Employee Training**

- Minimizing Unconscious Bias in Recruitment & Hiring, UI Employee Development and Learning, Online Training, November 12, 2020
- Search Committee Training, UI Employee Development & Learning, Online Training, October 9, 2020
- Creating a Respectful Community, University of Idaho Professional Development and Learning, Online Training, February 4, 2020; November 20, 2018
- 2018 UI Security Awareness Training, University of Idaho Professional Development and Learning, Online Training, February 4, 2020; November 20, 2018
- Family Educational Rights and Privacy Act, University of Idaho Professional Development and Learning, Online Training, August 30, 2018
- Collaborative Institutional Training Initiative Program, Introduction to Animal Care and Use, Online Training, September 24, 2018
- Collaborative Institutional Training Initiative Program, Working with Cattle in Agricultural Research Settings, Online Training, September 24, 2018
- Collaborative Institutional Training Initiative Program, Working with Horses in an Agricultural Research Setting, Online Training, September 24, 2018
- Emergency Management, University of Idaho Nancy M. Cummings REEC
- Performance Management, University of Idaho Professional Development and Learning, Online Training, September 7, 2017
- Purchasing Card Program and Travel Expense Training, University of Idaho Professional Development and Learning, Online Training, December 20, 2016
- Safety and Security Awareness, University of Idaho Professional Development and Learning, Online Training, December 6, 2016
- Diversity and Inclusion at the University of Idaho, University of Idaho Professional Development and Learning, Online Training, February 4, 2020; December 6, 2016
- IT Security, University of Idaho Professional Development and Learning, Online Training, December 6, 2016
- Safety Matters, University of Idaho Professional Development and Learning, Online Training, October 27, 2016
- Job Hazard Analysis, University of Idaho Professional Development and Learning, Online Training, October 27, 2016
- Family Educational Rights and Privacy Act, University of Idaho Professional Development and Learning, Online Training, September 9, 2016
- Fire Safety in the Workplace, University of Idaho Net Learning, Online Training, February 4, 2020; April 1, 2016

- Our Inclusive Workplace Discrimination and Sexual Harassment Prevention Training, University of Idaho Professional Development and Learning, Online Training, December 10, 2015
- University of Idaho Mission and Goals, University of Idaho Professional Development and Learning, Online Training, December 9, 2015
- University of Idaho Stewardship of Resources & Ethical Conduct, University of Idaho Professional Development and Learning, Online Training, December 9, 2015
- New Employee Welcome & Benefits Orientation, University of Idaho Professional Development and Learning, Online Training, September 28, 2015
- Defensive Driving Course, University of Idaho Net Learning, Online Training, February 4, 2020; September 17, 2015