

## CURRICULUM VITAE

University of Idaho

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

**NAME:** James Eugene Sprinkle

**DATE:** 7 December 2017

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

**DEPARTMENT:** Animal & Veterinary Sciences

**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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**WEB:**

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

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

**DATE OF PRESENT RANK OR TITLE:** 15 September 2015

**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)

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, 2 lectures 2017

**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)

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

James R. Vinyard, M.S., Animal & Veterinary Science, 2016-present.  
 Carmen M. Willmore, Ph. D., Animal & Veterinary Science, 2015-present.  
 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., 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:**

- 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.**, 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. Regiarrdo. 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. Regiarrdo. 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.

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

- Cooke, R. and **J. Sprinkle**. 2017. *How to select and manage replacement heifers*. Western Beef Resource Committee Cattle Producers Handbook 745:1-4.

- 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 30 November 2017.
- Sprinkle, J. E.** 2017. *Applying adaptive grazing management*. Pacific Northwest Extension Publication. Accepted. 6 pp.
- 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)

- 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. Schalau, 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. Schalau, 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. Schalau, 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:**

- 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.** 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.

**Sprinkle, J. E.**, J. W. Holloway, C. L. Ferrell, B. G. Warrington, and T. D. A. Forbes. 1996. *Fat distribution of breeds adapted to the tropics and to temperate areas of the world*. Beef Cattle Research in Texas, 1995:51-54.

**Extension Reports:**

McClaran, M. P., (alphabetical order) J. Brugger, M. A. Crimmins, L. D. Howery, G. B. Ruyle, **J. E. Sprinkle**, and D. R. Tolleson. 2017. *Using a co-development process to improve, integrate and encourage use of drought information and adaptive management of livestock grazing on National Forests*. Final grant report to National Oceanic and Atmospheric Administration. 223 pp.

**Sprinkle, J.** 2017. *2017 utilization report Poison Creek Allotment and Rock Creek Ranch*. 22 pp.

W-2012 Multistate Research Committee. 2017. *Annual report: Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes*. Western Experiment Station Directors. 43 pp. Editor.

- Sprinkle, J. E.**, S. Baker, J. Church, R. Findlay, S. Graf, S. Jensen, S. Williams, and C. Willmore. 2016. *Critical issues grant report: Regional assessment of mineral status in forage and range grasses*. 3 pp.
- Sprinkle, J. E.**, C. Packer, and W. Smith. 2016. *Forage production and utilization on Rock Creek Ranch*. 2016. 19 pp.
- Sprinkle, J. E.** 2016. *Determining optimal efficiency of beef cattle for Idaho rangelands*. 3 pp.
- Sprinkle, J. E.** 2016. *Research synopsis for Rock Creek Ranch*. 3 pp.
- Sprinkle, J. E.** 2016. *Station report to W-2012, University of Idaho*, 3 pp.
- McClaran, M., J. Brugger, M. Crimmins, **J. Sprinkle**, D. Tolleson, G. Ruyle, L. Howery, and K. Hawkes. 2016. *Workshop III report: Using a co-development process to improve, integrate, and encourage use of drought information and adaptive management of livestock grazing on National Forests*. 33 pp.
- McClaran, M., J. Brugger, M. Crimmins, **J. Sprinkle**, D. Tolleson, G. Ruyle, L. Howery, and K. Hawkes. 2015. *Workshop II report: Using a co-development process to improve, integrate, and encourage use of drought information and adaptive management of livestock grazing on National Forests*. 31 pp.
- McClaran, M., J. Brugger, M. Crimmins, **J. Sprinkle**, D. Tolleson, G. Ruyle, L. Howery, and K. Hawkes. 2015. *Workshop I report: Using a co-development process to improve, integrate, and encourage use of drought information and adaptive management of livestock grazing on National Forests*. 29 pp.
- Sprinkle, J.**, D. England, C. Lyman, and M. Valentine. 2015. *13 Range Monitoring Reports summarized for data collected 2011 to 2015*. 4,201 pages for the 13 reports.
- Sprinkle, J.**, D. England, and C. Lyman. 2014. *7 Range Monitoring Reports summarized for data collected 2009 to 2013*. 3,639 pages for the 7 reports.
- Sprinkle, J.**, J. Stratton, D. England, and M. Leonard. 2013. *15 Range Monitoring Reports summarized for data collected 2009-2012*. 9,402 pages for the 20 reports.
- Sprinkle, J.**, J. Stratton, D. England, and M. Leonard. 2012. *20 Range Monitoring Reports summarized for data collected 2009-2012*. 3,499 pages for the 7 reports.
- Dal Molin, T., D. Tolleson, **J. Sprinkle**, M. Sprinkle, D. Schafer, and B. McMurry. 2012. *Remote monitoring of individual animal mineral supplement intake by range cattle*. Producer's Update and Research Highlights. Department of Animal Sciences, University of Arizona. Arizona Cattlemen's Association Summer Meeting, July, 2012, Prescott, AZ. 5 pp.
- 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*. Producer's Update and Research Highlights. Department of Animal Sciences, University of Arizona. Arizona Cattlemen's Association Summer Meeting, July, 2011, Prescott, AZ. 6 pp.



- Sprinkle, J.,** G. Ruyle, and M. Crimmins. 2011. *Change on the range: Ten years of rangeland monitoring on the Tonto National Forest*. Producer's Update and Research Highlights. Department of Animal Sciences, University of Arizona. Arizona Cattlemen's Association Summer Meeting, July, 2011, Prescott, AZ. 1 pp.
- Sprinkle, J.,** J. Stratton, M. Leonard, and D. England. 2011. *12 Range Monitoring Reports summarized for data collected 2009-2010*. 4,411 pages for the 12 reports.
- Sprinkle, J.,** J. Stratton, M. & P. Leonard, D. England, and K. Hawker. 2010. *21 Range Monitoring Reports summarized for data collected in 2008*. 5,561 pages for the 21 reports.
- Sprinkle, J.** 2010. *Reading the range*. Producer's Update and Research Highlights. Department of Animal Sciences, University of Arizona. Arizona Cattlemen's Association Summer Meeting, July, 2010, Tucson, AZ. 2 pp.
- Sprinkle, J.,** D. Tolleson, J. Kava, C. Thiel, V. Prileson, B. Barcus, R. Tanner, T. Tanner, and F. Henderson. 2009. *Effect of protein supplementation on forage utilization by range cattle grazing weeping lovegrass in central Arizona*. Producer's Update and Research Highlights, Department of Animal Sciences, University of Arizona, Arizona Cattlemen's Association Summer Meeting, Tucson, AZ. 3 pp.
- Sprinkle, J.** 2009. *Reading the range: Expanding the benefits of the program through technology*. Producer's Update and Research Highlights, Department of Animal Sciences, University of Arizona, Arizona Cattlemen's Association Summer Meeting, Tucson, AZ. 2 pp.
- Sprinkle, J.,** J. Stratton, M. Leonard, and D. England. 2009. *21 Range Monitoring Reports summarized for data collected 2007-2008*. 4,382 pages for the 21 reports.
- Sprinkle, J. E.,** M. & P. Leonard, and J. Stratton. 2009. *10 Range Monitoring Reports summarized for data collected in 2007*. 1,525 pages for the 10 reports.
- Sprinkle, J. E.,** M. & P. Leonard, and J. Stratton. 2008. *12 Range Monitoring Reports summarized for data collected in 2007*. 2,233 pages for the 10 reports.
- Sprinkle, J.,** D. Tolleson, J. Kava, C. Thiel, V. Prileson, R. Tanner, and F. Henderson. 2008. *Effect of protein supplementation on forage utilization by range cattle grazing weeping lovegrass in central Arizona*. Producer's Update and Research Highlights, Department of Animal Sciences, University of Arizona, Arizona Cattlemen's Association Summer Meeting, San Carlos, AZ. 2 pp.
- Sprinkle, J.** 2008. *Reading the range*. Producer's Update and Research Highlights, Department of Animal Sciences, University of Arizona, Arizona Cattlemen's Association Summer Meeting, San Carlos, AZ. 2 pp.
- Sprinkle, J. E.,** M. & P. Leonard, D. Randall, and P. Browning. 2007. *18 Range Monitoring Reports summarized for data collected in 2006*. 4,630 pages for the 18 reports.
- Sprinkle, J. E.,** M. Leonard, and J. Wedell. 2006. *9 Range Monitoring Reports summarized for data collected in 2005*. 2,496 pages for the 9 reports.

- Sprinkle, J. E.**, P. Leonard, W. Sprinkle, P. M. Browning, G. High, and S. Bolt. 2005. *8 Range Monitoring Reports summarized for data collected in 2004*. 1,825 pages for the 8 reports.
- Sprinkle, J. E.**, K. J. Eldredge, P. M. Browning, and K. A. Cline. 2004. *5 Range Monitoring Reports summarized for data collected in 2003*. 1,005 pages for the 5 reports.
- Sprinkle, J. E.** 2003. *9 Range Monitoring Reports summarized for data collected in 2002 to 2003*. 993 pages for the 9 reports.
- Sprinkle, J. E.** 2002. *2 Range Monitoring Reports summarized for data collected in 2001 to 2002*. 527 pages for the 2 reports.
- Sprinkle, J. E.** 2000. *2000 Report: Forage Production, Utilization, Frequency, and Cover Data and Suggested Grazing Strategy for the Greenback Valley Allotment*. 21 pp.

### Technical Reports:

- Hawkes, K., **J. Sprinkle**, M. McClaran, D. Tolleson, M. Crimmins, J. Brugger, G. Ruyle, and L. Howery. 2015. *Guide to using the drought scenario planning tool*. 22 pp. University of Arizona Website: Co-developing ways to increase preparation for future droughts. Available at: <http://cals.arizona.edu/droughtandgrazing/>
- Medina, A. L., **J. Sprinkle**, D. G. Neary, G. Zaines, G. Ruyle, L. Smith, J. Maynard, J. Dyess, D. M. Green, and J. G. Hiller. 2006. *Technical Review: Tonto National Forest Riparian Area Management Utilization Guidelines (RAMUG)*. A Report to Mr. David Cook, Gila County Cattle Growers. January 27, 2006. 132 pp.
- Sprinkle, J. E.** 2002. *2001 Report – Forage Production and Utilization on the Buck Springs Allotment*. 101 pp.
- Sprinkle, J.** Editor. 2001. *Western Coordinating Committee 110 2001 Annual Report: Improving Ruminant Use of Forages in Sustainable Production Systems for the Western U.S.* August 22-26, 2001. Pray, Montana. 118 pp.
- Taylor, C., M. Whitney, D. Fleishman, J. Gonzales, R. Steed, R. Miller, C. Benedict, **J. Sprinkle**, P. Knight, and B. Palmer. 1999. *East Clear Creek Watershed Recovery Strategy for the Little Colorado Spinedace and Other Riparian Species*. 101 pp.

### Posters:

- 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 an interactive scenario-planning tool for ranchers and Forest Service to prepare for drought*. 13<sup>th</sup> Symposium on Research Insights in Semi-arid Environments (RISE). 8 October 2016. Tucson, AZ.
- Sprinkle, J. E.** J. W. Schalau, and G. B. Ruyle. 2010. *Reading the Range*. UA Meet Yourself Meeting. 4 March 2010. Tucson, AZ.

- Zaimes, G., K. McReynolds, **J. Sprinkle**, J. Schalau, B. Hutchinson, M. Nichols, R. Grumbles, C. Jones, D. Green, and M. Crimmins. 2005. *Educational tools for understanding Arizona's riparian areas*. University of Arizona Water Sustainability Program Fall Forum. 9 November 2005. Tucson, AZ.
- Sprinkle, J. E.** and C. K. Jones. 1999. *Noxious weeds in Young Arizona*. Poster Presentation. Young County Fair and Northern Gila County Fair. September 1999. Young and Payson, AZ.
- Jones, C. K. and **J.E. Sprinkle**. 1999. *Noxious weeds of the Tonto Weed Management Area: The knapweeds*. Poster Presentation. Young County Fair and Northern Gila County Fair. September 1999. Young and Payson, AZ.
- 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. *Profit and Risks Analysis for Ranching*. Poster Presentation. College of Agriculture Annual Conference. Dec. 8-9, 1999. Tucson, AZ.
- 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.

#### Abstracts:

- Sprinkle, J. E.**, R. M. Kattnig, R. E. Tronstad, L. D. Howery, G. B. Ruyle, R. D. Fish, K. H. McReynolds, R. L. Grumbles, J. W. Schalau, S. J. Campbell, S. L. Tuttle, G. R. Moore, and G. C. Duff. 2007. *Range Livestock Nutrition School*. 2007 Annual Report Western Education/Extension and Research Activity # 110 : Improving Ruminant Use of Forages in Sustainable Production Systems for the Western US. May 21-23, 2007. Miles City, MT.
- Cook, D., **J. Sprinkle**, and P. Jacquez. 2006. *Environmental assessment of grazing land through modeling*. Soil and Water Conservation Society 2006 International Conference. 25 July 2006. Keystone, CO.
- Sprinkle, J. E.**, D. W. Bailey, L. D. Howery, G. R. Welling, K. H. McReynolds, G. R. Moore, R. D. Fish, R. M. Kattnig, S. L. Tuttle, R. L. Grumbles, J. W. Schalau, and R. E. Tronstad. 2006. *Keeping cows where you want them: Livestock grazing behavior*. 2006 Annual Report Western Education/Extension and Research Activity # 110 : Improving Ruminant Use of Forages in Sustainable Production Systems for the Western US. May 22-23, 2006. Vernon, TX.
- Sprinkle, J. E.**, M. K. Petersen, L. D. Howery, D. W. Schafer, S. P. Cuneo, K. H. McReynolds, R. D. Fish, M. W. Hauser, G. C. Duff, E. A. Didier, R. J. Collier, R. L. Gumbles, and J. W. Schalau. 2005. *Range livestock nutrition for the Southwest: What we've learned and how to apply it*. Western Coordinating Committee # 110 2005 Annual Report: Improving Ruminant Use of Forages in Sustainable Production Systems for the Western US. June 20-21, 2005. Las Cruces, NM.

- Sprinkle, J. E.**, L. Didier, B. Kattnig, G. Moore, K. McReynolds, D. Fish, R. Grumbles, etc. 2003. *Drought recovery and restocking*. Western Coordinating Committee # 110 2003 Annual Report: Improving Ruminant Use of Forages in Sustainable Production Systems for the Western US. August 4-6, 2003. Logan, UT.
- Sprinkle, J. E.**, J. Schalau, G. Ruyle, C. K. Jones, and D. Warrick. 2002. *Reading the Range*. Western Coordinating Committee 110 2002 Annual Report: Improving Ruminant Use of Forages in Sustainable Production Systems for the Western US. August 14-15, 2002. Flagstaff, AZ.
- Sprinkle, J. E.**, R. L. Grumbles, R. W. Rice, R. D. Fish, H. M. Frederick, K. H. McReynolds, K. M. Heaton, and A. S. Meen. 2001. *University of Arizona Range Livestock Nutrition School*. 2 pp. In: Western Coordinating Committee # 110 2001 Annual Report.

### Newsletters:

- Sprinkle, J. E.** *Coli shedding prevalence among grazing beef cattle*. Cattlemen's Corner Beef Newsletter, Southern District Extension Counties, Idaho. 2 pp. September 2017. 1,200 circulation.
- Sprinkle, J.**, S. Baker, J. Church, R. Findlay, S. Graf, S. Jensen, S. Williams, and C. Willmore. *Regional assessment of mineral status in forage and range grasses*. Cattlemen's Corner Beef Newsletter, Southern District Extension Counties, Idaho. 2 pp. March 2017. 1,200 circulation.  
Available at: <http://owyheecounty.net/extension/extension-newsletters/>  
Accessed 30 November 2017.
- Sprinkle, J.** 2016. *Applying adaptive grazing management*. In: Magic Valley Livestock Exchange Newsletter. April 2016, Vol. 1, Issue 3. 4 pp.
- Sprinkle, J.** 2009. *President's message, AZ Section, Society for Range Management*. March, July, September, and November 2009. 7 pp.
- Sprinkle, J.**, G. Ruyle, D. Cook, J. Maynard, D. Robinett, S. Schendel, C. Jones, L. Warren, M. Stephenson, and J. Wages. 2008. *Relevé shrub monitoring protocol*. In: AZ Section, Society for Range Management Newsletter. June 2008. 4 pp.
- Sprinkle, J.** 2007. *Report from Director North*. AZ Section, Society for Range Management Newsletter. November 2007. 1 pp.
- Sprinkle, J.** 2006. *Reading the Range*. In: AZ Cattle Growers Association Newsletter. 24 November 2006.
- Sprinkle, J.** 2003. *North Central Arizona Newsletter*. 17 pp.
- Sprinkle, J.** 2002. *North Central Arizona Newsletter*.
- Sprinkle, J.** 2001. *North Central Arizona Newsletter*, 3 issues, 44 pp.
- Sprinkle, J.** 2000. *North Central Arizona Newsletter*, 3 issues, 29 pp.
- Sprinkle, J.** 1999. *North Central Arizona Newsletter*, 3 issues, 27 pp.

### Software:

- Sprinkle, J. E.** 2015. *Range monitoring data management*. 38 Excel worksheets with instructions available at: <http://extension.arizona.edu/gila-reading-range> .

**Refereed/Adjudicated (currently scheduled or submitted):** (provide citations)

Brugger, J., M. P. McClaran, and **J. E. Sprinkle**. 2017. *Translating natural resources on U.S. public lands*. Ethos: Journal of Anthropology. (Revised Document Submitted).

**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. 2017. *Regional assessment of mineral status in Idaho forage and range grasses*. Prof. Anim. Sci. (Submitted).

**Peer Reviewed/Evaluated (currently scheduled or submitted):**

Hawkes, K. L., M. P. McClaran, J. Brugger, M. A. Crimmins, L. D. Howery, G. B. Ruyle, **J. E. Sprinkle**, and D. R. Tolleson. 2017. *Guide to co-developing drought preparation plans for livestock grazing allotments on Southwest National Forests*. Arizona Cooperative Extension Publication. (Submitted).

**Sprinkle, J.**, S. Arispe, and D. Macon. 2017. *Determining stocking rates on rangeland*. Western Beef Resource Committee Cattle Producers Handbook. (Submitted).

**Presentations and Other Creative Activities:** (i.e. slide sets, web pages, video productions, etc., provide date and location)**Brochures:**

Sprinkle, J. E., D. Freeman, J. Foraker, D. J. Young, J. W. Schalau, M. E. Stuart, and V. S. Steele. 1997. *Cattle ranching in Yavapai County*. Yavapai Cooperative Extension. Prescott, AZ.

Chickering, D. K., D. J. Young, J. E. Sprinkle, M. E. Stuart, V. S. Steele, R. M. Kattnig, G. B. Ruyle, L. D. Howery, B. K. Tucker, L. M. Sullivan, R. H. Hawkins, and C. C. Kaltenbach. 1997. *V Bar V Ranch self-guided auto tour*. Yavapai Cooperative Extension. Camp Verde, AZ.

Sprinkle, J. E. 1995. *Economic impact of horses in Gila County*. University of Arizona Gila County Extension Publication GC-24. Globe, AZ.

**Radio/TV/Video:**

**Sprinkle, J.** 2017. *Calculating stocking rate*. Video Production. Presenter on this 3:23 minute video produced by Dr. Sergio Arispe, Oregon State University. Oregon State University, Corvallis, OR. Available at: [https://media.oregonstate.edu/media/t/0\\_hdsaho08](https://media.oregonstate.edu/media/t/0_hdsaho08) . Accessed 30 November 2017. (Peer Reviewed).

**Sprinkle, J.** 2017. *How do you collect forage production data?* Video Production. Presenter on this 8:57 minute video produced by Dr. Sergio Arispe, Oregon State University. Oregon State University, Corvallis, OR. Available at: [https://media.oregonstate.edu/media/t/0\\_jm8idopu](https://media.oregonstate.edu/media/t/0_jm8idopu) . Accessed 30 November 2017. (Peer Reviewed).

- Sprinkle, J.** 2017. *Where do you collect forage production data?* Video Production. Presenter on this 4:34 minute video produced by Dr. Sergio Arispe, Oregon State University. Oregon State University, Corvallis, OR. Available at: [https://media.oregonstate.edu/media/t/0\\_082db43c](https://media.oregonstate.edu/media/t/0_082db43c) . Accessed 30 November 2017. (Peer Reviewed).
- Sprinkle, J.** 2017. *A rancher's perspective on determining stocking rates.* Video Production. Co-producer on this 7:30 minute video with Dr. Sergio Arispe, Oregon State University. Oregon State University, Corvallis, OR. Available at: [https://media.oregonstate.edu/media/t/0\\_66jvmsb5](https://media.oregonstate.edu/media/t/0_66jvmsb5). Accessed 30 November 2017. (Submitted for Peer Review).
- Sprinkle, J.** 2017. *Introduction to utilization monitoring.* Video Production. Presenter on this 5:55 minute video produced by Dr. Sergio Arispe, Oregon State University. Oregon State University, Corvallis, OR. Available at: [https://media.oregonstate.edu/media/t/0\\_cg6amo81](https://media.oregonstate.edu/media/t/0_cg6amo81) . Accessed 30 November 2017. (Peer Reviewed).
- Sprinkle, J.** 2017. *Using the utilization gauge.* Video Production. Presenter on this 16:40 minute video produced by Dr. Sergio Arispe, Oregon State University. Oregon State University, Corvallis, OR. Available at: [https://media.oregonstate.edu/media/t/0\\_177e37h5](https://media.oregonstate.edu/media/t/0_177e37h5) . Accessed 30 November 2017. (Peer Reviewed).
- Sprinkle, J.** 2017. *Developing your own utilization curve.* Video Production. Presenter on this 4:56 minute video produced by Dr. Sergio Arispe, Oregon State University. Oregon State University, Corvallis, OR. Available at: [https://media.oregonstate.edu/media/t/0\\_25gnl4to](https://media.oregonstate.edu/media/t/0_25gnl4to) . Accessed November 2017. (Peer Reviewed).
- Sprinkle, J.** 2017. *Celebrating 125 years of the Idaho Experiment Station.* Interviewee for part of this 2:25 minute video produced by the University of Idaho College of Agriculture and Life Sciences. Available at: <https://www.uidaho.edu/cals/idaho-agricultural-experiment-station> . Accessed 30 November 2017.
- Sprinkle, J.E.** 2014. *Reading the Range.* Video Production. Interviewee on this video production produced by Cody Sheehy and Dave Bogner with Alan Davis as editor. University of AZ College of Agriculture and Life Sciences. Tucson, AZ. Available at: <https://www.youtube.com/watch?v=N-ZGIjed7p0>
- Pierce, Thomas. Reporter. 2007. *Arizona's drought on the Mogollon Rim.* Here and Now, KJZZ-FM, 91.5, Tempe (serving Phoenix area with over 3.7 million people). Interviewee. May 9, 2007.
- Steele, V. S. 1995. Producer. *Horse Science: Breaking a two-year old horse.* Yavapai County Cooperative Extension. Filmed at Cottonwood, AZ.  
Part 1: *Pressure and release*, (30 mins.), Host.  
Part 2: *Saddling and bridling the first time*, (30 mins.), Host.  
Part 3: *Fancy's first ride*, (30 mins.), Host, Co-Editor.
- Steele, V. S. 1995. Producer. *Horse Science: Tack selection and fitting.* Yavapai County Cooperative Extension. Filmed at Cottonwood, AZ.  
Part 1: *Saddles and bridles*, (30 mins.), Host.

**Web Site:**

**Sprinkle, J. E.** 2016. Three publications and 3 presentations I authored or coauthored on grazing and NEPA are available on this website hosted by the Sublette County Conservation District in Wyoming. I was an invited speaker there in 2016. Available at:

<http://www.sublettecd.com/pid/60/range-program.aspx>

**Sprinkle, J.** 2014. *Reading the Range*. AZ Cooperative Extension Website. <https://extension.arizona.edu/reading-range-impact-story> Assisted in the preparation of this impact story written by ACE staff.

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.

**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 2016 Listed)**

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. 2016-2018. (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. 2016-2018. (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. 2016-2018. (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. 2016-2018. (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 2013-2017: \$507,734**

**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 W2012, Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes, Chair, 2017-2018, Secretary, 2016-2017, Member, 2013-present

- 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-present
- 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-present
- 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:

- Range Monitoring Subcommittee, Rock Creek Ranch, Member, 2016-present
- Beef Program of Distinction, Member, 2015-present
  - Goal 1.1B, Increasing Animal Efficiency with genotypic and phenotypic markers, Member, (2015-present)
  - Goal 1.2, Natural Resources Sustainability, Chair, 2015-present
  - Goal 1.3C, Advanced Management School, Member, 2015-present
  - Goal 2.2, Pre-harvest Management, Nutrition, and Genetics Effects on Product Quality, Member, 2015-present
- Idaho Range Livestock Symposium Planning Committee, Member, 2015-present
- Rangeland Center, Member, 2015-present
  - Rangelands Innovations Academy, Member, 2017-present

## College:

- University of Idaho Extension & Idaho Experiment Station Publishing, Associate Editor, 2016-present
- Extension Advisory Committee, Member, 2017-2019
- 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:

- Search & Screen Committee, UI Animal & Veterinary Sciences Department Head, Member, 2017
- Master's Graduate Committee, James Vinyard, Animal & Veterinary Sciences, Member, 2016-present
- Doctoral Graduate Committee, Carmen Willmore, Animal & Veterinary Sciences, University of Idaho, Member, 2015-present
- 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, 2016-2019
- 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, 1 submitted manuscript, 2017

- 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, 1 submitted article, 2017
- Professional Animal Scientist, Peer Reviewer, 3 submitted manuscripts, 1 secondary review, 2016-2017
- Journal of Agricultural Science, Cambridge, Peer Reviewer, 1 submitted manuscript, 2016
- Cattle Producers Handbook, Western Beef Producers Committee, Peer Reviewer, 2 submitted manuscripts, 2016
- NMSU Extension Publications, Peer Reviewer, 1 submitted article, 2016
- 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
- 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, J.** 2018. *Establishing a cattle mineral program for your ranch.* Progressive Cattlemen. (Peer Reviewed; Accepted January 2018 issue). 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.

#### **Interview Articles:**

- 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 Preserve – 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)**

- 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:**

- 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:**

- 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

**Administration/Management:**

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

**Required Employee Training**

- 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, 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, 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, September 17, 2015