

**CURRICULUM VITAE**  
University of Idaho

**NAME:** Melinda Ellison

**DATE:** December 6, 2022

**RANK OR TITLE:** Associate Professor, Extension Range Livestock and Sheep Specialist

**DEPARTMENT:** Animal, Veterinary and Food Sciences

**OFFICE LOCATION AND CAMPUS ZIP:**

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

**OFFICE PHONE:** 208-756-2749

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**DATE OF FIRST EMPLOYMENT AT UI:** June 1, 2016

**DATE OF TENURE:** 2022

**DATE OF PRESENT RANK OR TITLE:** 2022

**EDUCATION BEYOND HIGH SCHOOL:**

**Degrees:**

Ph.D., University of Wyoming, Laramie, Wyoming, April 2016, Animal and Veterinary Sciences  
M.S., University of Wyoming, Laramie, Wyoming, August 2013, Animal and Veterinary Sciences  
B.S., University of Wyoming, Laramie, Wyoming, December 2010, Animal and Veterinary Sciences,  
Animal Biology Option; Minor in Fisheries and Wildlife Biology

**EXPERIENCE:**

**Teaching, Extension and Research Appointments:**

*Assistant Professor, Extension Range Livestock and Sheep Specialist, University of Idaho, Nancy M. Cummings Research, Extension and Education Center, Carmen, Idaho, 2016-Present*  
*Graduate Research Assistant, University of Wyoming, Laramie, Wyoming, 2011-2016*

**Non-Academic Employment:**

*Manager and Wrangler, E and H Guide Service, Laramie, Wyoming, 2012-2016*  
*Ranch Hand, Hecht Creek Ranch, Laramie, Wyoming, 2010-2016*  
*Bar Manager, Albany Lodge, Albany, Wyoming, 2010-2012*  
*Ranch Manager, Ellison Heart V Ranch, Kremmling, Colorado, 2009*  
*Sales Associate, The Feed Store, Laramie, Wyoming, 2007-2009*  
*Ranch Hand, Piney Peak Ranch, Kremmling, Colorado, Summers 2004-2007 and 2009*  
*Ranch Hand, Ellison Heart V Ranch, Kremmling, Colorado, 1995-2009*  
*Veterinary Technician Intern, Animal Medical Pavilion, Kittanning, Pennsylvania, 2008*

**TEACHING ACCOMPLISHMENTS:**

**Areas of Specialization:** Grazing and range management, ruminant nutrition, livestock (beef cattle and sheep) production, rangelands and wildlife habitat, public lands grazing allotment policy, herd health and biosecurity practices.

**Courses Taught:**

Guest Lecturer, University of Idaho, Moscow, Idaho  
Integrated Rangeland Management, REM 456, "Conducting Applied Rangeland Research"

April 18, 2019  
 Beef Management, AVS 474, “Range Livestock Management”  
 March 6 and 8, 2017  
 March 5 and 7, 2018  
 Animal Nutrition, AVS 305, “Range Livestock Nutrition”  
 November 11, 2016  
 November 17, 2017  
 November 16, 2018

Teaching Assistant and Guest Lecturer, Animal and Veterinary Sciences Department, University of Wyoming, Laramie, Wyoming (2011 – 2016)  
 Principles of Animal Breeding (3 semesters)  
 Topics and Issues in Agriculture Writing Course (3 semesters)  
 Nutritional Management, lecture and laboratory (1 semester)  
 Sheep Production, lecture and laboratory (1 semester)  
 Livestock Production, lecture and laboratory (1 semester)

**Students Advised:**

Undergraduate Students:

| <b>Undergraduate Student</b> | <b>Degree/Department</b> | <b>Dates</b> | <b>Role</b>   |
|------------------------------|--------------------------|--------------|---|
| Mallery Sisson               | B.S. Animal Science      | Summer 2018  | <i>Undergraduate Internship Co-Supervisor with Dr. Jim Sprinkle</i>   |
| Robert Bloomsberg            | B.S. Animal Science      | Summer 2018  | <i>Undergraduate Internship Supervisor</i>                            |
| Ben Cochran                  | B.S. Range Science       | Summer 2017  | <i>Undergraduate Internship Co-Supervisor with Dr. Tracey Johnson</i> |
| Kassadie Dunham              | B.S. Range Science       | Summer 2016  | <i>Undergraduate Research Advisor</i>                                 |

Graduate Students:

*Current:*

Matthew Ratterman; M.S. Animal Science; August 2022 – Expected May 2024; *Major Advisor*  
 Tyler Thomas; Ph.D. Fish & Wildlife Science; August 2022 – Expected May 2026; *Co-Major Advisor*  
 Tulley Mackey; M.S. Water Resources; May 2021 – Expected May 2024; *Major Advisor*  
 Claire Southerland; Ph.D. Animal Science; July 2020 – Expected May 2023; *Major Advisor*

*Served on graduate committee:*

Gabrielle Becker; Ph.D. Animal Science; Sept 2019 – Expected May 2024; *Major Advisor: Brenda Murdoch*  
 Jake Thorne; M.S. Animal Science; Aug 2019 – Expected May 2023; *Major Advisor: Brenda Murdoch*

*Advised to completion of degree – major professor:*

Kenneth Randall; M.S. Fish & Wildlife Science; Dec 2018 – Aug 2021; *Co-Major Advisor*  
*Thesis:* Mesic meadow responses to variation in grazing management practices: Balancing sage-grouse resources with livestock production

*Achievements:*

- 2019 Shikar Safari Club Graduate Student University Scholarship Recipient

Dillan Henslee; M.S. Animal Science; Aug 2018 – Dec 2020; *Major Advisor*

*Thesis:* Determining genomic and phenotypic traits associated with variability in dietary preferences in grazing sheep

*Achievements:*

- 2019 University of Idaho Fall Commencement College of Graduate Studies Highlight Student
- 2019 American Society of Animal Science Annual Conference, Graduate Student Poster Competition – 1<sup>st</sup> Place
- 2019 University of Idaho Graduate and Professional Student Association Travel Award Recipient

- 2019 Western Section of the American Society of Animal Science Young Scholar Recognition Award Recipient; Master's Category
- 2019 Pacific Northwest Nutrition Conference, Graduate Student Poster Competition – 3<sup>rd</sup> Place

**Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:**

\*Indicates presentations given by graduate student advisees.

**Workshops and Classes** (*Coordinator, unless otherwise noted*):

- Sprinkle, J. and **M. J. Ellison**. Alternative Forages and Grazing Management Session. University of Idaho Advanced Ranch Management School. Virtual. August – September 2022.
- Ellison, M. J.**, C. J. Willmore, W. Stewart, and C. Page. 2020. University of Idaho – University of Wyoming – Utah State University Extension Sheep and Goat Webinar Series. Virtual, monthly. February 10, 2021 – Present.
- Taylor, J. B. and M. J. Ellison. 2021. What it takes to be a range breed: Potential utility of the Katahdin breed in the U.S. West. Rocky Mountain Katahdin Association Annual Meeting. Dubois, Idaho. June 10, 2021. (*Co-coordinator*)
- Ellison, M. J.**, W. Stewart, and C. J. Willmore. 2021. Wool Judging Coaches Clinic. Jerome, Idaho. April 29, 2021.
- Ellison, M. J.**, W. Stewart, and A. Ruth. 2021. Wool Judging Coaches Clinic. Idaho Falls, Idaho. April 30, 2021.
- Sprinkle, J., J. B. Hall, B. Glaze, **M. J. Ellison**, and P. Bass. 2021. AVFS Research in Action: Past, present, and future. Animal, Veterinary, and Food Sciences In-Service. Virtual. April 15, 2021. (*Co-coordinator*)
- Ellison, M. J.**, C. J. Willmore, and W. Stewart. 2020. University of Idaho and University of Wyoming Extension Sheep and Goat Webinar Series. Virtual, weekly. April 2, 2020 – January 28, 2021.
- Ellison, M. J.** and M. Small. 2020. University of Idaho Extension Beef Cattle Webinar Series. Online, bi-monthly. April 8 – July 1, 2020.
- Sprinkle, J., J. B. Hall, B. Glaze, **M. J. Ellison**, A. Hulet, J. England, and P. Bass. 2020. Land and Livestock In-Service Training. Online. April 16, 2020. (*Co-coordinator*)
- Ellison, M. J.** 2020. University of Idaho Extension Sheep and Goat Special Topics Webinar. Online. April 8, 2020.
- Ruth, A., Small, M., Nash, S., Baker, S., **Ellison, M.**, Nunn, L., and J. Lancaster. 2019. Beef Consumer Education Workshop. Idaho Falls, Idaho. May 18, 2019. (*Co-coordinator*)
- Ellison, M. J.**, S. K. Williams, C. Williams, M. Beyeler, and J. E. Sprinkle. 2018. Rangeland Center Fall Forum Tour. October 5, 2018. (*Co-coordinator*)
- Ellison, M. J.** 2018. Grazing management strategies for riparian areas training (Permittees and Idaho Fish and Game). Leadore, Idaho. August 20, 2018.
- Ellison, M. J.** 2018. Range monitoring training (UI Extension). Salmon, Idaho. May 24, 2018.
- Ellison, M. J.** 2018. Grazing management strategies training (BLM). Salmon, Idaho. May 8, 2018.
- Ellison, M. J.** 2018. Deciphering public lands grazing permit documents (Permittees). Morgan Creek, Challis, Idaho. April 27, 2018.
- Glaze, B., **M. J. Ellison**, J. B. Hall, and J. E. Sprinkle. 2018. University of Idaho Extension Annual Conference Livestock In-Service Training and Professional Development, Moscow, Idaho. April 5, 2018. (*Co-coordinator*)
- Ellison, M. J.** 2018. Grazing management strategies training (BLM). Salmon, Idaho. March 30, 2018.
- Ellison, M. J.** 2017. Range monitoring training (Permittees). Copper Basin, Mackay, Idaho. July 21, 2017.
- Ellison, M. J.** 2017. Public Lands Allotment Assessment and Management Strategies Training (Permittees and US Forest Service). Morgan Creek, Challis, Idaho. May 26, 2017.
- Ellison, M. J.**, B. Gamett, and S. Baker. 2017. Monitoring for your public grazing permit workshop. Mackay, Idaho. May 25, 2017.
- Ellison, M. J.**, and S. K. Williams. 2017. Monitoring for your public grazing permit workshop. Tendoy, Idaho. May 23, 2017.
- Ellison, M. J.**, and S. K. Williams. 2017. Cooperative monitoring roundtable. Salmon, Idaho. February 8, 2017.

- Ellison, M. J.** and S. K. Williams. 2016. Cooperative monitoring discussion (BLM). Salmon, Idaho. October 20, 2016.
- Ellison, M. J.** and S. K. Williams. 2016. Cooperative monitoring discussion (US Forest Service). Salmon, Idaho. September 29, 2016.
- Ellison, M. J.** 2016. Range monitoring training (Permittees and US Forest Service). Copper Basin, Mackay, Idaho. September 21, 2016.
- Ellison, M. J.** 2016. Range monitoring training (Permittees). Copper Basin, Mackay, Idaho. August 2, 2016.
- Ellison, M. J.,** J. E. Sprinkle, and S. Baker. 2016. Public lands allotment assessment and range monitoring strategies training (Permittees). Copper Basin, Mackay, Idaho. July 15, 2016.
- Ellison, M. J.** 2016. Public lands allotment assessment and grazing management strategies training (Permittees). Copper Basin, Mackay, Idaho. July 6, 2016.

#### **Presentations:**

- Ellison, M. J.** Estimating stocking rates and grazing utilization. University of Idaho Advanced Ranch Management School. Virtual. September 27, 2022.
- Ellison, M. J.** Alternative forages and grazing management strategies. University of Idaho Advanced Ranch Management School. Virtual. August 8, 2022.
- Ellison, M. J.** Integrated Farm Management. UI-UWYO-USU Extension Sheep & Goat Monthly Webinar Series. Virtual. June 8, 2022.
- Ellison, M. J.,** C. J. Willmore, B. Beckman, A. Harty, M. Van Emon, and R. Kern-Lunberry. Drought challenges and strategies panel. Ward Laboratories, Inc. Drought Challenges and Strategies Webinar Part II. Virtual. March 14, 2022. *Invited.*
- Ellison, M. J.** Grazing management of riparian areas. UI Range Department Seminar Series. Virtual. March 2, 2022. *Invited.*
- Ellison, M. J.** Grazing management of riparian areas. Little Salmon River Watershed Collaborative Meeting. Virtual. February 8, 2022. *Invited.*
- Ellison, M. J.** Grazing management of rangelands during drought. UI Lemhi Cattlemen's Winter School, Salmon, ID. January 11, 2022. *Invited.*
- Ellison, M. J.,** C. J. Willmore, and C. Page. Winter management timeline and strategies for sheep and goats. UI-UW-USU Extension Sheep & Goat Monthly Webinar Series. Virtual. December 8, 2021.
- Ellison, M. J.** and S. Williams. Developing young replacement animals (beef cattle, sheep, and goats). Ladies Raising Livestock Workshop. Salmon, Idaho. December 3, 2021.
- Ellison, M. J.** Sheep Industry Panel. Idaho Wool Grower's Association Annual Meeting. Twin Falls, ID. November 20, 2021. *Invited.*
- Ellison, M. J.,** C. J. Willmore, B. Beckman, A. Harty, M. Van Emon, and R. Kern-Lunberry. Drought challenges and strategies panel. Ward Laboratories, Inc. Drought Challenges and Strategies Webinar. Virtual. November 11, 2021. *Invited.*
- \*Southerland, C., J. V. Yelich, J. B. Taylor, and **M. J. Ellison.** Methods for identification and classification of phenylthiocarbamide sensitivity in mature rams. American Society for Animal Science Annual Meeting. Louisville, Kentucky. July 17, 2021.
- Ellison, M. J.** Riparian grazing research at Rinker Rock Creek Ranch. Animal, Veterinary, and Food Sciences In-Service. Virtual. April 15, 2021.
- Ellison, M. J.** Physiological basis of feed efficiency in sheep. Northeast American Society of Animal Science Annual Meeting. Virtual. April 7, 2021. *Invited – Plenary Talk and Panelist.*
- Ellison, M. J.** and W. Stewart. Small ruminant nutritional management around kidding and lambing. UI-UWYO-USU Extension Sheep & Goat Monthly Webinar Series. Virtual. March 10, 2021.
- Ellison, M. J.** Grazing management in riparian areas. North Fork Payette River Watershed Summit. Virtual. March 8, 2021. *Invited.*
- \*Randall, K. J., **M. J. Ellison,** T.N. Johnson, and J.V. Yelich. Wet meadow habitat responses to variation in grazing management practices: Balancing habitat requirements of Greater sage-grouse with livestock production. Rock Creek Ranch Research Update Webinar. Virtual. March 1, 2021.
- Ellison, M. J.,** C. J. Willmore, C. Page, and W. Stewart. Sheep and goat specialist Q&A. UI-UW-USU Extension Sheep & Goat Monthly Webinar Series. Virtual. February 10, 2021.
- \*Randall, K. J., **M. J. Ellison,** T.N. Johnson, and J.V. Yelich. Wet meadow habitat responses to variation in grazing management practices: Balancing habitat requirements of Greater sage-

grouse with livestock production. Society for Range Management Annual Meeting. Virtual. February 4, 2021.

**Ellison, M. J.,** J. V. Yelich, J. Karl, and K. Randall. Characterizing livestock and wild ungulate use on willows at Rock Creek Ranch. UI Lemhi Cattlemen's Winter School, Salmon, ID. January 26, 2021. *Invited.*

\*Randall, K. J., **M. J. Ellison,** T.N. Johnson, and J.V. Yelich. Riparian grazing management strategies in sage-grouse habitat. UI Lemhi Cattlemen's Winter School, Salmon, ID. January 26, 2021.

\*Randall, K. J., **M. J. Ellison,** T.N. Johnson, and J.V. Yelich. Riparian grazing management strategies in sage-grouse habitat. Idaho Range Livestock Symposium. Virtual. January 12, 2021.

**Ellison, M. J.** and C. Willmore. Early lamb and kid care. UI & UW Extension Sheep and Goat Webinar Series. Virtual. January 28, 2021.

**Ellison, M. J.** and C. Willmore. Labor to colostrum: Step-by-step parturition. UI & UW Extension Sheep and Goat Webinar Series. Virtual. January 21, 2021.

**Ellison, M. J.** and C. Willmore. Lambing and kidding equipment checklist. UI & UW Extension Sheep and Goat Webinar Series. Virtual. December 17, 2020.

**Ellison, M. J.** Winter feeding strategies for sheep and goats. UI & UW Extension Sheep and Goat Webinar Series. Virtual. November 12, 2020.

**Ellison, M. J.** and R. Kern. Analyzing hay and balancing rations for winter feeding sheep and goats. UI & UW Extension Sheep and Goat Webinar Series. Virtual. September 17, 2020.

**Ellison, M. J.** Biosecurity and disease management for sheep and goats. UI & UW Extension Sheep and Goat Webinar Series. Virtual. July 23, 2020.

**Ellison, M. J.** Genetic improvements through ewe and doe management. UI & UW Extension Sheep and Goat Webinar Series. Virtual. July 9, 2020.

**Ellison, M. J.** Disease management for sheep. Idaho Cattle Association and Idaho Wool Growers Association Summer Roundup Annual Meeting. Burley, Idaho. June 24, 2020. *Invited.*

**Ellison, M. J.** Sheep farm management. Idaho Cattle Association and Idaho Wool Growers Association Summer Roundup Annual Meeting. Burley, Idaho. June 24, 2020. *Invited.*

**Ellison, M. J.,** T. N. Johnson, J. V. Yelich, W. J. Price, K. J. York, and K. Randall. Mesic meadow response to grazing utilization in south-central Idaho. Idaho Section of the Society for Range Management and University of Idaho's Riparian Management and Research on the Rinker Rock Creek Ranch: Webinar and Virtual Tour. Virtual. June 19, 2020.

**Ellison, M. J.,** J. V. Yelich, J. Karl, and K. Randall. Characterizing livestock and wild ungulate use on willows at Rock Creek Ranch. Idaho Section of the Society for Range Management and University of Idaho's Riparian Management and Research on the Rinker Rock Creek Ranch: Webinar and Virtual Tour. Virtual. June 19, 2020.

**Ellison, M. J.** and K. S. Jensen. Grazing management for sheep and goats. UI Extension Sheep and Goat Webinar Series. Virtual. May 7, 2020.

**Ellison, M. J.** and K. S. Jensen. Grazing management for beef cattle. UI Extension Beef Webinar Series. Virtual. May 6, 2020.

**Ellison, M. J.** Sheep and goat nutrition. UI Extension Sheep and Goat Webinar Series. Virtual. April 16, 2020.

**Ellison, M. J.,** Hines, S., C. Willmore, J. Packham, L. Golden, J. Sagers, J. Thomas, R. Roemer, and G. Shewmaker. Simulated Grazing Timing and Regrowth of Annual Cereal Forage Cover Crops. Lemhi Cattlemen's Winter School. Salmon, Idaho, November 20, 2019. *Invited.*

\*Henslee, D., J. V. Yelich, J. B. Taylor, B. Murdoch, and **M. J. Ellison.** Drivers of dietary preferences in sheep. Nancy M. Cummings Research, Extension, and Education Center Bred Heifer Sale and Cow-Calf Days. Carmen, Idaho. October 25, 2019.

**Ellison, M.,** Hines, S., C. Willmore, J. Packham, J. Sagers, J. Thomas, and G. Shewmaker. Simulated Grazing Timing and Regrowth of Annual Cereal Forage Cover Crops. Northwest Forage Worker's Conference. Salmon, Idaho, October 15, 2019.

Hines, S., C. Willmore, J. Packham, J. Sagers, J. Thomas, **M. Ellison,** and G. Shewmaker. Simulated Grazing Timing and Regrowth of Annual Cereal Forage Cover Crops. Nancy M. Cummings Research and Extension Center Twilight Tour. Salmon, Idaho, September 5, 2019.

\*Henslee, D., J. V. Yelich, J. B. Taylor, and **M. J. Ellison.** Drivers of dietary preferences in sheep. Western Section American Society of Animal Science Young Scholar Recognition Recipient Seminar. Boise, Idaho. June 13, 2019. *Invited presentation for award recipients.*

- Ellison, M. J.** Cattle eat healthy diets, too! Beef Consumer Education Workshop. Idaho Falls, Idaho. May 18, 2019.
- \*Henslee, D., J. Yelich, J. B. Taylor, and **M. Ellison**. Bitter or better taste buds? Aversion to phenylthiocarbamide in mature rams. University of Idaho College of Graduate Studies Innovation Showcase. Moscow, Idaho. April 18, 2019.
- Willmore, C. J., S. Hines, J. Packham, L. Golden, J. Thomas, J. Sagers, **M. Ellison**, and G. Shewmaker. Simulated Grazing Timing and Regrowth of Annual Cereal Forage Cover Crops. Idaho Hay and Forage Growers Conference. Burley, Idaho. February 21, 2019.
- Elli7son, M. J.** Grazing to prevent or mitigate fire damage. 38<sup>th</sup> Annual Utah Beef Cattle Field Day. Provo, Utah. February 12, 2019. *Keynote Speaker*.
- Ellison, M. J.**, J. Karl, J. V. Yelich, C. Marlow, W. Prescott, and J. Boyes. Characterizing livestock and wild ungulate use on willows at Rock Creek Ranch. Rock Creek Ranch Research Update Webinar. Virtual. February 6, 2019.
- \*York, K. J., T. J. Johnson, and **M. J. Ellison**. Implications of grazing utilization on greater sage-grouse brood-rearing habitat at Rock Creek Ranch. Rock Creek Ranch Research Update Webinar. Virtual. February 6, 2019.
- Ellison, M. J.** and T. Stromm. Understanding NEPA and Permit Renewal. Lemhi Cattlemen's Winter School. Salmon, Idaho. January 22, 2019. *Invited*.
- Ellison, M. J.** Selecting heifers that are right for your operation. Nancy M. Cummings Research, Extension, and Education Center Bred Heifer Sale and Cow-Calf Days. Carmen, Idaho. October 26, 2018. *Invited*.
- Ellison, M. J.** Research update: Yield and quality of forage cereal grains. Nancy M. Cummings Research, Extension, and Education Center Twilight Tour. Carmen, Idaho. September 6, 2018.
- \*York, K. J. and **M. J. Ellison**. Wildlife and livestock interactions: Effects of livestock grazing intensity in wet meadows on sage-grouse habitat. Sagebrush Saturdays at Rock Creek Ranch. Blaine County, Idaho. August 18, 2018.
- \*Henslee, D. and **M. J. Ellison**. Wildlife and livestock interactions: Let-down fence. Sagebrush Saturdays at Rock Creek Ranch. Blaine County, Idaho. August 18, 2018.
- Ellison, M. J.** Application of genetic tools for beef selection: Selection opportunities in the cow herd. University of Idaho Extension Annual Conference Livestock In-Service Training and Professional Development. Moscow, Idaho. April 5, 2018
- \*York, K. J., T. J. Johnson, and **M. J. Ellison**. Implications of grazing utilization on greater sage-grouse brood-rearing habitat. Rock Creek Ranch Research Update Webinar. Virtual. December 6, 2017.
- Ellison, M. J.** Cover crop research update. Nancy M. Cummings Research, Extension, and Education Center Forage Field Days. Carmen, Idaho. September 11, 2017.
- Ellison, M. J.** and T. J. Johnson. Rock Creek Ranch Research Update. Rock Creek Ranch Advisory Committee Tour. Blaine County, Idaho. June 28, 2017.
- Ellison, M. J.** Why Monitor? Monitoring for your public grazing permit workshop. Mackay, Idaho. May 25, 2017.
- Ellison, M. J.** Why Monitor? Monitoring for your public grazing permit workshop. Tendoy, Idaho. May 23, 2017.
- Ellison, M. J.** Multi-species Grazing. Magic Valley Livestock School, Gooding, Idaho. January 31, 2017.
- Ellison, M. J.** and B. Murdoch. University of Idaho Sheep Research Update. West Central States Wool Growers Convention. Sun Valley, Idaho. November 17, 2016.
- Ellison, M. J.** Research Update. Nancy M. Cummings Research, Extension, and Education Advisory Board Meeting, Idaho Cattle Association Convention. Sun Valley, Idaho. November 15, 2016.
- Ellison, M. J.**, G. Conant, W. R. Lamberson, T. M. Taxis, H. C. Cunningham, K. J. Austin, and K. M. Cammack. The effect of residual feed intake status on rumen microbial profiles in ewe lambs. Western Section American Society of Animal Science Meeting, Ruidoso, New Mexico. June 25, 2015.
- Ellison, M. J.** University of Wyoming Sheep Research Update. 2014 Northeast Wyoming Sheep Symposium. Buffalo, Wyoming. December 11, 2014.
- Ellison, M. J.**, G. Conant, W. R. Lamberson, K. J. Austin, R. R. Cockrum and K. M. Cammack. The effect of diet and feed efficiency status on rumen microbial profiles in sheep. Western

Section American Society of Animal Science Meeting. Bozeman, Montana. June 19-22, 2013.

**Ellison, M. J.,** R. R. Cockrum, K. W. Christensen, R. A. Vraspir, L. Speiser, W. J. Means, A. M. Meyer, and K. M. Cammack. The effect of diet on feed intake traits and relationships with carcass traits in sheep. American Society of Animal Science Joint Annual Meeting. Phoenix, Arizona. July 15-19, 2012.

#### **Youth Activities:**

**Ellison, M. J.** Grazing Livestock Behavior Activity; 7<sup>th</sup> grade Ag Week. Salmon, Idaho. March 22, 2021.

**Ellison, M. J.** Ration Balancing Activity; 5<sup>th</sup>/6<sup>th</sup> grade Ag Week. Salmon, Idaho. March 15, 2021.

**Ellison, M. J.** Grazing Management Activity; 7<sup>th</sup> grade Ag Week. Salmon, Idaho. March 16, 2021.

**Ellison, M. J.** Grazing Management Activity; 7<sup>th</sup> grade Ag Week. Salmon, Idaho. March 18, 2020.

**Ellison, M. J.** Products from Agriculture Activity; 4<sup>th</sup> grade Ag Week. Salmon, Idaho. March 17, 2020.

**Ellison, M. J.** Natural Resources Discussion; High School Ag Week. Salmon High School, Salmon, Idaho. March 12, 2020.

**Ellison, M. J.,** J. Sprinkle, and W. Smith. Sustainable Agriculture Practices. Salmon High School Natural Resources and Agriculture classes field trip to University of Idaho Nancy M. Cummings Research, Extension, and Education Center. Carmen, Idaho. December 2, 2019.

**Ellison, M. J.** Sheep Shearing Clinic. Lemhi County Bits & Boots 4-H Club. Carmen, Idaho. April 26, 2019.

**Ellison, M. J.** Wool Quality and Uses Discussion. Lemhi County Bits & Boots 4-H Club. Salmon, Idaho. March 12, 2019.

**Ellison, M. J.** Line-Transect Activity; 7<sup>th</sup> grade Ag Week field trip to University of Idaho Nancy M. Cummings Research, Extension, and Education Center. Carmen, Idaho. March 18, 2019.

**Ellison, M. J.** Ration Balancing Activity; 5<sup>th</sup> grade Ag Week field trip. University of Idaho Nancy M. Cummings Research, Extension, and Education Center. Carmen, Idaho. March 19, 2019.

**Ellison, M. J.** Uses for Wool; 6<sup>th</sup> grade Ag Week field trip. University of Idaho Nancy M. Cummings Research, Extension, and Education Center. Carmen, Idaho. March 20, 2019.

**Ellison, M. J.** Products from Beef Cattle; High School Ag Week. Salmon High School, Salmon, Idaho. March 21, 2019.

**Ellison, M. J.** Ration Balancing Activity; 5<sup>th</sup> grade Ag Week field trip. University of Idaho Nancy M. Cummings Research, Extension, and Education Center. Carmen, Idaho. March 22, 2018.

**Ellison, M. J.** Careers in Agriculture; High School Ag Week. Salmon High School, Salmon, Idaho. March 21, 2018.

**Ellison, M. J.** Line-Transect Activity; 7<sup>th</sup> grade Ag Week field trip to University of Idaho Nancy M. Cummings Research, Extension, and Education Center. Carmen, Idaho. March 20, 2018.

**Ellison, M. J.** Ration Balancing Activity; 5<sup>th</sup> grade Ag Week field trip to University of Idaho Nancy M. Cummings Research, Extension, and Education Center. Carmen, Idaho. March 23, 2017.

**Ellison, M. J.** Line-Transect Activity; 7<sup>th</sup> grade Ag Week field trip to University of Idaho Nancy M. Cummings Research, Extension, and Education Center. Carmen, Idaho. March 22, 2017.

**Ellison, M. J.** Careers in Agriculture; High School Ag Week. Salmon High School, Salmon, Idaho. March 23, 2017.

#### **Other:**

**Ellison, M. J.** Using the Madigan squeeze to encourage vigor and suckling in slow, weak lambs. Video. University of Idaho Extension Sheep and Goat Facebook Page. March 12, 2021.

**Ellison, M. J.** Using the Madigan squeeze to encourage vigor and suckling in slow, weak lambs. Video. University of Idaho Extension Livestock YouTube Channel. March 12, 2021.

**Ellison, M. J.** Tips for spring grazing turnout on irrigated pasture. Video. University of Idaho Extension Sheep and Goat Facebook Page. April 13, 2020.

**Ellison, M. J.** Tips for creep feeding lambs. Video. University of Idaho Extension Sheep and Goat Facebook Page. April 9, 2020.

**Ellison, M. J.** Management to reduce winter weather stress in cattle. AgriBeef Minute with Kaydee Gilkey; Northwest Radio Stations. March 8, 2017.

## Media and Newsletter Platforms:

- Ellison, M. J.**, C. J. Willmore, W. Stewart, and C. Page. UI-UW-USU Extension Sheep and Goat Quarterly Newsletter. April 2021 – April 2022.
- Ellison, M. J.** University of Idaho Extension Sheep and Goat Facebook Page. Established February 2020. [www.Facebook.com/UISheepandGoats](http://www.Facebook.com/UISheepandGoats)
- Ellison, M. J.** University of Idaho Extension Livestock YouTube Channel. Established April 2020. <https://www.youtube.com/channel/UCGrmjYNXPVwf-V-VeZYfFnQ?>
- Ellison, M. J.** and C. J. Willmore. University of Idaho Extension Sheep and Goat Website. Established April 2020. <https://www.uidaho.edu/extension/sheep-and-goat>

## SCHOLARSHIP ACCOMPLISHMENTS:

\*Indicates publications written by graduate student advisees.

†Indicates corresponding author.

## Publications and Abstracts:

### Refereed/Adjudicated:

#### *Journals:*

- \*Randall, K. J., **M. J. Ellison**<sup>†</sup>, J. V. Yelich, W. J. Price, and T. N. Johnson. 2022. Changes in forage quality and cattle performance with short-duration grazing of Intermountain West mesic meadows. *Rangeland Ecology and Management*. 87(2023):13-21. DOI: 10.1016/j.rama.2022.10.005.
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- 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. 2021. Predicting cattle grazing behavior on rangeland using accelerometers. *Rangeland Ecology and Management*. 76:157-170. DOI: 10.1016/j.rama.2020.10.001.
- \*Henslee, D., B. Murdoch, J. Yelich, J. B. Taylor, and **M. J. Ellison**<sup>†</sup>. 2020. Comparative genomics of the sheep Tas2r repertoire to cattle, goat, human, dog, and mice. *Animal Gene*. 17-18(2020): 200107. DOI: 10.1016/j.angen.2020.200107.

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- Yelich, J. V., **M. J. Ellison**<sup>†</sup>, J. B. Hall PAS, M. McGee. 2019. Intake behaviors of yearling steers grazing irrigated pasture and receiving either a free-choice salt-based mineral or a low-moisture molasses-based tub mineral. *Translational Animal Science*. 3(2):749-760. DOI: 10.1093/tas/txz077.
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**Refereed/Adjudicated (currently scheduled or submitted):**

*Journals:*

**Other:**

*Impact Statements:*

- Williams, S., **M. Ellison**, and S. Baker. 2022. Ladies raising livestock program targets women in the livestock industry. University of Idaho Cooperative Extension System. Impact Statement.
- Ruth, A., M. Small, S. Nash, S. Baker, **M. Ellison**, L. Nunn, and J. Lancaster. 2019. Workshop teaches consumers why beef should be what's for dinner. University of Idaho Cooperative Extension System. Impact Statement.

*Peer Reviewed Proceedings:*

- Stegemiller, M. R., **M. J. Ellison**, J. B. Hall, J. E. Sprinkle, and B. M. Murdoch. 2021. Identifying genetic variants affecting cattle grazing behavior experiencing mild heat load. *Proceedings*

of the Western Section American Society of Animal Science Annual Meeting. *Translational Animal Science*. 5(Supplement1):S61-66. DOI: 10.1093/tas/txab151.

- \*Henslee, D., J. V. Yelich, J. B. Taylor, **M. J. Ellison**. 2019. Aversion to Phenylthiocarbamide in mature Targhee and Rambouillet rams. *Proceedings of the Western Section American Society of Animal Science. Translational Animal Science*. 3(Supplement1):1749-1753. DOI: 10.1093/tas/txz080. DOI: 10.1093/tas/txz080
- \*York, K. J., T. J. Johnson, **M. J. Ellison**. 2019. Mesic meadow response to varying levels of grazing utilization in south central Idaho. *Proceedings of the Western Section American Society of Animal Science. Translational Animal Science*. 3(Supplement1):1658-1663. DOI: 10.1093/tas/txz050.
- 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? *Proceedings of the Western Section American Society of Animal Science. Translational Animal Science*. 3(Supplement1):1797-1801. DOI: 10.1093/tas/txz101.
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#### **Abstracts:**

- Ellison, M. J.** 2023. Genetic influence in sheep diet selection. Society for Range Management Annual Meeting. Boise, Idaho. February 2023.
- Winford, E., T. Mackey, J. Karl, **M. Ellison**, C. Goebel, and L. Lynch. 2023. Channel and vegetation response to low-tech process-based restoration structures. Society for Range Management Annual Meeting. Boise, Idaho. February 2023.
- Willmore, C., J. Sprinkle, R. Lewis, D. Tolleson, J. Hall, and **M. Ellison**. 2023. Forage intake and digesta kinetics of beef cattle differing in feed efficiency while grazing Idaho rangelands. Society for Range Management Annual Meeting. Boise, Idaho. February 2023.

- \*Southerland, C. N., J. V. Yelich, J. B. Taylor, and **M. J. Ellison**. 2022. Feed intake and behavioral responses of mature rams provided feed containing phenylthiocarbamide. Western Section American Society for Animal Science Annual Meeting. Park City, Utah. September 20-22, 2022.
- Debasitis, C., S. Goddard, **M. Ellison**, G. Chibisa, J. Sprinkle, and J. B. Hall. 2022. Impact of high nitrate forages on cattle performance and circulating nitrate concentrations. Western Section American Society for Animal Science Annual Meeting. Park City, Utah. September 20-22, 2022.
- \*Southerland, C., J. V. Yelich, J. B. Taylor, and **M. J. Ellison**. 2021. Behavioral response in rams classified by phenylthiocarbamide taster status. Western Section American Society for Animal Science Annual Meeting. Fort Collins, Colorado. October 17-20, 2021.
- \*Southerland, C., J. V. Yelich, J. B. Taylor, and **M. J. Ellison**. 2021. Methods for identification and classification of phenylthiocarbamide sensitivity in mature rams. American Society for Animal Science Annual Meeting. Louisville, Kentucky. July 14-18, 2021.
- Stegemiller, M. R., **M. J. Ellison**, J. B. Hall, J. E. Sprinkle, and B. M. Murdoch. 2021. Identifying genetic variants associated with grazing, walking, and slope use of cattle experiencing mild heat load. American Society for Animal Science Annual Meeting. Louisville, Kentucky. July 14-18, 2021.
- \*Randall, K. J., **M. J. Ellison**, and T. N. Johnson. 2021. Resource responses in Greater sage-grouse (*Centrocercus urophasianus*) brood-rearing habitat to livestock grazing Society for Range Management Annual Meeting. Virtual. February 2-4, 2021.
- Sprinkle, J., **M. Ellison**, J. Sagers, J. Yelich, C. Willmore, J. Brennan, J. B. Taylor, and J. Lamb. 2020. Cow adaptations to the rangeland environment. University of Idaho Rangeland Center Fall Forum. October 2020.
- Hall, J. B., J. E. Sprinkle, **M. J. Ellison**, S. A. Goddard, J. B. Taylor, and J. B. Glaze, Jr. 2020. Comparison of range-based and irrigated cow-calf systems: Grazing season performance. American Society of Animal Science National Virtual Meeting. July 19-23, 2020.
- \*Randall, K. J., **M. J. Ellison**, and T. N. Johnson. 2020. Resource responses in Greater sage-grouse (*Centrocercus urophasianus*) brood-rearing habitat to livestock grazing. Idaho Chapter of the Wildlife Society Annual Meeting. Moscow, Idaho. March 9-12, 2020.
- \*Randall, K. J., **M. J. Ellison**, and T. N. Johnson. 2020. Mesic meadow habitat responses to variation in grazing management practices: Balancing habitat requirements of Greater sage-grouse with livestock production. Society for Range Management Annual Meeting. Denver, Colorado. February 16-20, 2020.
- \*Henslee, D., B. M. Murdoch, J. Yelich, J. B. Taylor, and **M. J. Ellison**. 2020. Comparative genomics of sheep Tas2r genes to cattle, goat, human, dog and mice. Plant and Animal Genome Meeting XXVIII. San Diego, California. January 11-15, 2020.
- \*Henslee, D., B. M. Murdoch, J. Yelich, J. B. Taylor, and **M. J. Ellison**. 2019. The role of Tas2r genes in diet selection of grazing sheep. American Lamb Summit. Fort Collins, Colorado. August 27-28, 2019.
- \*Henslee, D., J. V. Yelich, J. B. Taylor, **M. J. Ellison**. 2019. Tas2r genes in sheep and cattle compared to humans. American Society of Animal Science National Meeting, Austin, Texas. July 8-11, 2019. *1<sup>st</sup> place Graduate Student Poster Competition*.
- Yelich, J. V. and **M. J. Ellison**. 2019. Temporal variations in cattle activity in willows (*Salix* spp.) in mesic meadows in southern Idaho. Western Section American Society of Animal Science. Boise, Idaho. June 11-13, 2019.
- \*Henslee, D., J. V. Yelich, J. B. Taylor, and **M. J. Ellison**. 2019. Bitter or better taste buds? Aversion to phenylthiocarbamide in mature rams. Pacific Northwest Animal Nutrition Conference. Boise, Idaho. January 14 – 15, 2019. *3<sup>rd</sup> Place Graduate Student Poster Competition*.
- \*Randall, K. J., T. J. Johnson, and **M. J. Ellison**. 2019. Resource responses of greater sage-grouse (*Centrocercus urophasianus*) brood-rearing habitat to livestock grazing. Idaho Chapter of the Wildlife Society Annual Meeting. Boise, Idaho. March 19 – 21, 2019.
- Lauritzen, D., J. W. Karl, J. Yelich, and **M. Ellison**. 2019. Comparison of drone and field measurements of willow canopy volumes in a southern Idaho riparian area. Society for Range Management Annual Meeting. Minneapolis, Minnesota. January 10 – 14, 2019.
- \*York, K. J., T. J. Johnson, and **M. J. Ellison**. 2018. Outcomes of indirect interactions on resource availability in greater sage-grouse (*Centrocercus urophasianus*) brood-rearing habitat. International Grouse Symposium. Boise, Idaho. September 24 – 28, 2018.

- Reynolds, M. K., **M. J. Ellison**, G. E. Chibisa, A. Ahmadzadeh, and J. B. Hall. 2018. Influence of post weaning grazing on reproductive measures in beef heifers. American Society of Animal Science Annual Meeting. Vancouver, Canada. July 8 – 12, 2018.
- \*York, K. J., T. J. Johnson, and **M. J. Ellison**. 2018. Implications of grazing utilization levels on Greater sage-grouse habitat in riparian meadows in central Idaho. Idaho Chapter of the Wildlife Society Annual Meeting. Idaho Falls, Idaho. March 6 – 9, 2018.
- \*York, K. J., T. J. Johnson, and **M. J. Ellison**. 2018. Implications of grazing utilization levels on Greater sage-grouse habitat in riparian meadows in central Idaho. Society for Range Management Annual Meeting. Sparks, Nevada. January 30 – February 2, 2018.
- \*York, K. J., T. J. Johnson, and **M. J. Ellison**. 2018. Implications of grazing utilization levels on Greater sage-grouse habitat in riparian meadows in central Idaho. Pacific Northwest Animal Nutrition Conference. Boise, Idaho. January 16-17, 2018.
- Ellison, M. J.**, G. Conant, W. R. Lamberson, T. M. Taxis, E. A. Van Kirk, D. C. Rule, H. C. Cunningham, K. J. Austin, and K. M. Cammack. 2016. The effect of residual feed intake on rumen microbial profiles in growing ewe lambs. Plant and Animal Genome Meeting XXIV. San Diego, California. January 9-13, 2016.
- Abrams, A. N., K. J. Austin, **M. J. Ellison**, H. C. Cunningham, G. Conant, W. R. Lamberson, T. Taxis, and K. M. Cammack. 2016. Effect of high sulfate water on rumen microbial populations in lambs. Plant and Animal Genome Meeting XXIV. San Diego, California. January 9-13, 2016.
- Powell, S., A. N. Abrams, K. J. Austin, **M. J. Ellison**, H. C. Cunningham, G. Conant, W. R. Lamberson, T. M. Taxis, E. A. Van Kirk, D. C. Rule, and K. M. Cammack. 2016. High sulfate water affects volatile fatty acid profiles in lambs. Plant and Animal Genome Meeting XXIV. San Diego, California. January 9-13, 2016.
- Ellison, M. J.**, G. Conant, W. R. Lamberson, T. M. Taxis, H. C. Cunningham, K. J. Austin, and K. M. Cammack. 2015. Associations of rumen microbial profiles with feed efficiency status in ewe lambs. High Plains Nutrition and Management Roundtable, Lingle, Wyoming. September 10, 2015.
- Abrams, A. N., K. J. Austin, **M. J. Ellison**, H. C. Cunningham, G. Conant, W. R. Lamberson, T. Taxis, and K. M. Cammack. 2015. High sulfate water affects rumen microbial populations in lambs. High Plains Nutrition and Management Roundtable, Lingle, Wyoming. September 10, 2015.
- Ellison, M. J.**, G. Conant, W. R. Lamberson, R. R. Cockrum, K. J. Austin, and K. M. Cammack. 2015. Effects of diet and feed efficiency on rumen microbial profiles in sheep. Plant and Animal Genome Meeting XXIII. San Diego, California. January 10-14, 2015.
- Cunningham, H. C., L. E. Speiser, C. J. Clarkson, **M. J. Ellison**, K. J. Austin, G. Conant, W. R. Lamberson, and K. M. Cammack. 2015. Rumen microbial populations associated with feed efficiency in forage-fed lambs. Plant and Animal Genome Meeting XXIII. San Diego, California. January 10-14, 2015.
- Taxis, T. M., **M. J. Ellison**, K. M. Cammack, G. C. Conant, and W. R. Lamberson. 2014. Variations of the microbiome among sheep breeds on two different diets. Symposium on Gut Health. St. Louis, Missouri. November 10-12, 2014.
- Ellison, M. J.**, G. Conant, W. R. Lamberson, R. R. Cockrum, K. J. Austin, and K. M. Cammack. 2014. Rumen microbial species associated with feed efficiency in sheep fed a forage-based diet. American Society of Animal Science National Meeting. Kansas City, Missouri. July 20-24, 2014.
- Cammack, K. M., **M. J. Ellison**, G. Conant, W. R. Lamberson, and K. J. Austin. 2014. Rumen microbial species and by-products associated with feed efficiency in sheep. Proceedings of the 10<sup>th</sup> World Congress on Genetics Applied to Livestock Production. Vancouver, British Columbia. August 17-22, 2014.
- Ellison, M. J.**, G. Conant, W. R. Lamberson, R. R. Cockrum, K. J. Austin, and K. M. Cammack. 2014. Effects of diet and feed efficiency on rumen microbial profiles in sheep. Plant and Animal Genome Meeting XXII. San Diego, California. January 10-14, 2014.
- Conant, G., **M. J. Ellison**, R. R. Cockrum, K. J. Austin, H. Truong, M. Becchi, W. R. Lamberson, K. and M. Cammack. 2014. Combining bioinformatics and statistical modeling to understand the ecology of the rumen microbial ecosystem in sheep. Plant and Animal Genome Meeting XXII. San Diego, California. January 10-14, 2014.
- Clarkson, C. J., H. C. Cunningham, **M. J. Ellison**, K. J. Austin, K. M. Cammack, and A. M. Meyer. 2014. Jejunal expression of intestinal growth-promoting genes in high and low efficiency

lambs. Plant and Animal Genome Meeting XXII. San Diego, California. January 10-14, 2014.

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**Ellison, M. J.**, G. Conant, W. R. Lamberson, K. J. Austin, and K. M. Cammack. 2013. The effect of diet on rumen microbial profiles in sheep. Plant and Animal Genome Meeting XXI. San Diego, California. January 11-16, 2013.

Cammack, K. M., **M. J. Ellison**, G. C. Conant, and W. R. Lamberson. 2013. Metagenomics potential to predict feed efficiency in sheep. Plant and Animal Genome Meeting XXI. San Diego, California. January 11-16, 2013.

**Ellison, M. J.**, R. R. Cockrum, R. A. Vraspir, L. Speiser, A. M. Meyer, and K. M. Cammack. 2012. The effect of diet on feed intake and performance traits in sheep. Colorado Nutrition Roundtable. Nunn, Colorado. September 20, 2012.

#### ***Research Reports:***

**Ellison, M. J.**, G. Conant, W. R. Lamberson, K. J. Austin, R. R. Cockrum, and K. M. Cammack. 2013. The effect of diet and feed efficiency status on rumen microbial profiles in sheep. University of Wyoming Department of Animal Science Annual Update. Laramie, Wyoming. November 2013.

**Ellison, M. J.**, R. R. Cockrum, K. W. Christensen, R. A. Vraspir, L. Speiser, W. J. Means, A. M. Meyer, and K. M. Cammack. 2012. The effect of diet on feed intake traits and relationships with carcass traits in sheep. University of Wyoming Department of Animal Science Annual Update. Laramie, Wyoming. November 2012.

Vraspir, R. A., **M. J. Ellison**, K. M. Cammack, and A. M. Meyer. 2012. The relationship of feed efficiency and visceral organ size in growing lambs fed a concentrate or forage-based diet. University of Wyoming Department of Animal Science Annual Update. Laramie, Wyoming. November 2012.

#### ***Thesis and Dissertations:***

**Ellison, M. J.** 2016. Rumen microbial profiles associated with variation in feed efficiency of lambs. Ph.D. Dissertation, Department of Animal and Veterinary Sciences, University of Wyoming. April 2016.

**Ellison, M. J.** 2013. Effects of diet and feed efficiency status on performance, carcass characteristics, and rumen microbial profiles in sheep. M.S. Thesis, Department of Animal and Veterinary Sciences, University of Wyoming. August 2013.

#### **Peer Reviewed/Evaluated Outreach Publications:**

**Ellison, M. J.** 2022. Grazing management of rangelands in drought. Progressive Cattle. June. <https://www.progressivecattle.com/topics/grazing/grazing-management-of-rangelands-in-drought>

**Ellison, M. J.** 2021. Grazing to target invasive annual grasses. Progressive Cattle. April. <https://www.progressivecattle.com/topics/grazing/grazing-to-target-invasive-annual-grasses>

**Ellison, M. J.** 2020. Developing a grazing management plan. Progressive Cattle. June. <https://www.progressivecattle.com/topics/grazing/developing-a-grazing-management-plan>

**Ellison, M. J.** 2019. How healthy are your sagebrush steppe pastures? Progressive Cattle. June. <https://www.progressivecattle.com/topics/grazing/how-healthy-are-your-sagebrush-steppe-pastures>

**Ellison, M. J.** 2019. Identifying nutritional health deficiencies in calving season. Progressive Cattle. February. <https://www.progressivecattle.com/topics/herd-health/identifying-nutritional-health-deficiencies-in-calving-season>

**Ellison, M. J.** 2018. Multi-species grazing to maximize utilization of forage resources. Progressive Cattle. September. <https://www.progressivecattle.com/topics/grazing/multispecies-grazing-to-maximize-utilization-of-forage-resources>

- Ellison, M. J.** 2017. Considerations for summer livestock shelter. Progressive Cattle. July. <https://www.progressivecattle.com/topics/herd-health/summer-livestock-shelter-considerations>
- Ellison, M. J.,** G. Conant, W. R. Lamberson, K. J. Austin, R. R. Cockrum, and K. M. Cammack. 2013. The effect of diet and feed efficiency status on rumen microbial profiles in sheep. University of Wyoming Agricultural Experiment Station Field Days Bulletin.
- Speiser, L. E., C. J. Clarkson, K. M. Cammack, K. A. Austin, E. O. Patrick, **M. J. Ellison,** and T. Martinez. 2013. Microbial ecology associated with improved feed efficiency in sheep. University of Wyoming Agricultural Experiment Station Field Days Bulletin.
- Ellison, M. J.,** R. R. Cockrum, K. W. Christensen, R. A. Vraspir, L. Speiser, W. J. Means, A. M. Meyer, and K. M. Cammack. 2012. The effect of diet on feed intake traits and relationships with carcass traits in sheep. University of Wyoming Agricultural Experiment Station Field Days Bulletin.

#### **Other Outreach Publications:**

- Ellison, M. J.** 2022. Selecting heifers that are right for your operation. Idaho Cattle Association Line Rider Magazine. December.
- Ellison, M. J.** 2022. Management to reduce winter weather stress in cattle. Southwest Idaho Beef Newsletter. January.
- Ellison, M. J.** 2021-2022. Making the most of feeding hay to ewes and does. Mid-States Hair Sheep Cooperative's Hair Sheep Times. December/January.
- Ellison, M. J.** 2021. Making the most of feeding hay to ewes and does. Idaho Wool Grower's Association Newsletter. November.
- Ellison, M. J.** 2021. Making the most of feeding hay to ewes and does. University of Idaho Lemhi Link Newsletter. November.
- Ellison, M. J.** 2021. Making the most of feeding hay to ewes and does. UI-UW-USU Extension Sheep and Goat Quarterly Newsletter. Fall.
- Ellison, M. J.** 2021. Grazing management of rangelands in drought. University of Idaho Lemhi Link Newsletter. August.
- Ellison, M. J.** 2021. Grazing management of rangelands in drought. Idaho Cattle Association Line Rider Magazine. July/August.
- Ellison, M. J.** 2021. Grazing management of rangelands in drought. Southwest Idaho Beef Newsletter. July.
- Ellison, M. J.** 2021. Grazing management of rangelands in drought. UI-UW-USU Extension Sheep and Goat Quarterly Newsletter. Summer.
- Ellison, M. J.** 2021. Guidelines for orphan lambs and kids: Colostrum, milk replacer, and creep. UI-UW-USU Extension Sheep and Goat Quarterly Newsletter. Spring.
- Ellison, M. J.** 2021. Making the most of feeding grass hay to beef cows. Southwest Idaho Beef Newsletter. January.
- Ellison, M. J.** 2020. Making the most of feeding grass hay to beef cows. Idaho Cattle Association Line Rider Magazine. December.
- Ellison, M. J.** 2020. Making the most of feeding grass hay to beef cows. University of Idaho Lemhi Link Newsletter. November.
- 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.
- Ellison, M. J.** 2020. Developing a grazing management plan on rangelands. Utah State University Extension: Utah Ag Industry Highlights. May.
- Ellison, M. J.** 2020. Sheep and lamb programs for Idaho producers and consumers. University of Idaho Lemhi Link Newsletter. May.
- Ellison, M. J.** 2020. Grazing dormant forages. Utah State University Extension: Utah Ag Industry Highlights. February.
- Ellison, M. J.** 2020. Grazing dormant forages. Southwest Idaho Beef Newsletter. January.
- Ellison, M. J.** 2019. Grazing dormant forages. Idaho Cattle Association Line Rider Magazine. December.
- Ellison, M. J.** 2019. Grazing dormant forages. University of Idaho: Bingham County Extension Newsletter. December.

- Ellison, M. J.** 2019. How to keep your grasses growing in the hot, dry months! Utah State University Extension: Utah Ag Industry Highlights. August.
- Ellison, M. J.** 2019. How healthy are your sagebrush steppe pastures? Utah State University Extension: Utah Ag Industry Highlights. June.
- Ellison, M. J.** 2019. How healthy are your sagebrush steppe pastures? University of Idaho Lemhi Link Newsletter. May.
- Ellison, M. J.** 2019. How healthy are your sagebrush steppe pastures? Southwest Idaho Beef Newsletter. May.
- Ellison, M. J.** 2019. Multi-species grazing to maximize forage resources. Utah State University Extension: Utah Ag Industry Highlights. April
- Ellison, M. J.** 2019. Developing a grazing management plan on rangelands. Idaho Cattle Association Line Rider Magazine. March.
- Ellison, M. J.** 2019. Preparing for your grazing allotment spring meetings. Utah State University Extension: Utah Ag Industry Highlights. February.
- Ellison, M. J.** 2019. Preparing for your grazing allotment spring meetings. University of Idaho Lemhi Link Newsletter. February.
- Ellison, M. J.** 2018. Management to reduce winter weather stress in cattle. Utah State University Extension: Utah Ag Industry Highlights. December.
- Ellison, M. J.** 2018. Selecting heifers that are right for your operation. Southwest Idaho Beef Newsletter. November.
- Ellison, M. J.** 2018. Grazing to target invasive annual grasses. University of Idaho: Bingham County Extension Newsletter. October.
- Ellison, M. J.** 2018. Grazing to target invasive annual grasses. Utah State University Extension: Utah Ag Industry Highlights. October.
- Ellison, M. J.** 2018. Grazing mesic and riparian areas in sage-grouse habitat. University of Idaho: Bingham County Extension Newsletter. July.
- Ellison, M. J.** 2018. Spring grazing to target invasive annual grasses. Southwest Idaho Beef Newsletter. March.
- Ellison, M. J.** 2018. Advice for preparing for you grazing allotment spring meetings. Idaho Cattle Association Line Rider Magazine. March.
- Ellison, M. J.** 2017. Grazing mesic and riparian areas in sage-grouse habitat. Idaho Cattle Association Line Rider Magazine. December.
- Ellison, M. J.** 2017. Morgan Creek-Prairie Basin Allotment economic impacts statement. Submitted to on behalf of Morgan Creek Grazing Association to the U.S. Forest Service. June.
- Ellison, M. J.** 2017. Developing a grazing management plan on rangeland. Southwest Idaho Beef Newsletter. May.
- Ellison, M. J.** 2017. Management to reduce winter weather stress in cattle. Idaho Cattle Association Line Rider Magazine. January.

#### **Grants and Contracts Awarded:**

##### **Hatch Project:**

- Ellison, M. J.**<sup>†</sup> 2018. Associations between livestock grazing and Greater sage grouse habitat in Idaho. National Institute of Food and Agriculture. Project #: 1018531.

##### **In-Kind:**

- Ellison, M. J.,** J. V. Yelich, C. Southerland, and J. B. Taylor. 2022. Methods for identification and classification of phenylthiocarbamide sensitivity in mature rams. USDA-ARS-USSES. \$30,000.
- Ellison, M. J.,** J. V. Yelich, C. Southerland, and J. B. Taylor. 2021. Methods for identification and classification of phenylthiocarbamide sensitivity in mature rams. USDA-ARS-USSES. \$30,000.
- Ellison, M. J.** and J. V. Yelich. 2020. Hawley Creek Beaver Dam Analog installation and restoration project. In-kind contributions between 2017 – 2020 by Idaho Governor’s Office of Species Conservation (OSC) from the following funding sources: Pacific Coast Salmon Recovery Fund (PCSRF), Sage Grouse Working Group Grant, Bonneville Power Administration (BPA), The Nature Conservancy. \$100,000.

- Ellison, M. J.,** J. V. Yelich, J. Walker, and J. B. Taylor. 2019. Determining consumed feed composition in rams using Near-Infrared Spectroscopy (NIRS). USDA-ARS-USSES. \$10,000.
- Ellison, M. J.,** J. V. Yelich, and J. B. Taylor. 2018. Utilization of phenylthiocarbamide for developing a model for testing bitter taste tolerance in sheep. USDA-ARS-USSES. \$13,500.
- Ellison, M. J.,** J. V. Yelich, J. Walker, and J. B. Taylor. 2018. Determining consumed feed composition in rams using Near-Infrared Spectroscopy (NIRS). USDA-ARS-USSES. \$15,000.
- Ellison, M. J.,** J. V. Yelich, and J. B. Taylor. 2018. Understanding rumen microbial composition in sheep divergent for sagebrush intake. USDA-ARS-USSES. \$20,000.
- Sprinkle, J. E., J. B. Hall, C. M. Willmore, G. E. Chibisa, and **M. J. Ellison.** 2016. Determining optimal efficiency of beef cattle for Idaho rangelands. In-kind laboratory NIRS fecal analyses, Sonora A & M AgriLife Research Center, \$6,000. (*Spending authority: \$0*)

**Pending:**

- M. J. Ellison** and J. V. Yelich. 2022. Virtual fence technology used to manage cattle in riparian habitats and wildfire burn areas. University of Idaho Rangeland Center, David Little Livestock Range Management Endowment, \$9,900.
- M. J. Ellison** and J. V. Yelich. 2022. Using virtual fences as a conservation tool for threatened and endangered fish. US Department of Interior Bureau of Land Management Project Grant. \$89,922.
- Lynch, L., C. Goebel, A. Tranmer, **M. Ellison,** and E. Winford. 2022. Effect of beaver-related restoration on hyporheic flow and vegetation productivity in wet meadows. USGS 104(b) Grant. \$23,880.

**Funded:**

- Ellison, M. J.** and J. V. Yelich. 2022. Use of virtual fence to balance forage utilization and cattle distribution across upland range and riparian habitats. USDA Natural Resource Conservation Service – Conservation Innovation Grant. \$65,000. (*Spending authority: \$65,000*)
- Ellison, M. J.** 2022. Hawley Creek Beaver Dam Analogs. Bonneville Environmental Foundation. \$14,660. (*Spending authority: \$14,660*)
- Hall, J. B., B. Glaze, S. Williams, J. Sprinkle, J. Packham, B. Eborn, H. Tejada, **M. Ellison,** and P. Bass. 2021. Advanced Ranch Management School. Innovative Project Award. \$7,962. (*Spending authority: \$0*)
- Randall, K., **M. Ellison,** and T. Johnson. 2021. Mesic meadow habitat responses to variation in grazing management practices: Balancing the habitat requirements of Greater sage-grouse with livestock production. University of Idaho Rangeland Center, David Little Livestock Range Management Endowment, \$6,498. (*Spending authority: \$6,498*)
- Goebel, C., J. Karl, **M. Ellison,** and E. Winford. 2020. Assessing the effectiveness of Beaver Dam Analogues (BDAs). USDA Natural Resource Conservation Service – Conservation Innovation Grant. \$73,463. (*Spending authority: \$9,257*)
- Randall, K., **M. Ellison,** and T. Johnson. 2020. Mesic meadow habitat responses to variation in grazing management practices: Balancing the habitat requirements of Greater sage-grouse with livestock production. University of Idaho Rangeland Center, David Little Livestock Range Management Endowment, \$9,000. (*Spending authority: \$9,000*)
- Murdoch, B. and **M. J. Ellison.** 2019. Minion sequencing training. University of Idaho, Department of Animal and Veterinary Science. \$3,500.
- Ellison, M. J.,** T. N. Johnson, K. Lee, E. Winford, J. Aycrigg, J. Wulfhorst, and J. R. Ritten. 2019. Social, economic, and ecological implications of grazing utilization and timing on riparian habitat in the Intermountain West. USDA-NIFA-AFRI Foundational Program – Sustainable Agroecosystems: Functions, Processes, and Management – GRANT # 12688015. \$499,663. (*Spending authority: \$159,421*)
- Willmore, C. J., S. Hines, J. Packham, G. Shewmaker, **M. Ellison,** J. Sagers, and J. Thomas. 2019. Simulated grazing timing and regrowth of annual cereal forage cover crops. UI Innovation Project Awards. \$7,500. (*Spending authority: \$0*)
- Hall, J. B., **M. Ellison,** G. Chibisa, and J. Sprinkle. Impact of grazing high nitrate forages on cattle performance and circulating methemoglobin concentrations. 2019. Mary A. Turner Animal

and Veterinary Science Livestock Research Endowment Award. \$4,819. (*Spending authority: \$0*)

- Ellison, M. J.**, T. N. Johnson, and E. Winford. 2019. Coexisting in wet meadows: Livestock grazing management and sage-grouse brood-rearing habitat. USDA Natural Resource Conservation Service – Conservation Innovation Grant. \$74,942. (*Spending authority: \$74,942*)
- Willmore, C., S. Hines, J. Packham, L. Golden, G. Shewmaker, and **M. J. Ellison**. 2018. Simulated grazing timing and regrowth of annual cereal forage cover crops. UI Innovation Project Awards. \$4,492. (*Spending authority: \$0*)
- Ellison, M. J.** and T. N. Johnson. 2018. Livestock management to facilitate sage-grouse habitat in wet meadows: effects of grazing intensity on preferred forbs. University of Idaho Rangeland Center, David Little Livestock Range Management Endowment, \$9,740. (*Spending authority: \$9,740*)
- Ellison, M. J.** and S. K. Williams. 2017. Lemhi County Range Monitoring Workshop Support. Idaho Rangeland Resource Commission. \$475. (*Spending authority: \$475*)
- Ellison, M. J.** and S. K. Williams. 2017. Lemhi County Range Monitoring Workshop Support. Lemhi County Soil and Water Conservation District. \$300. (*Spending authority: \$300*)
- Ellison, M. J.** and T. J. Johnson. 2017. Livestock management to facilitate sage-grouse habitat in wet meadows: effects of grazing intensity on preferred forbs. University of Idaho Rangeland Center, David Little Livestock Range Management Endowment, \$10,000. (*Spending authority: \$10,000*)
- Sprinkle, J. E., J. B. Hall, **M. J. Ellison**, C. M. Willmore, and G. E. Chibisa. 2016. Determining optimal efficiency of beef cattle for Idaho rangelands. University of Idaho College of Agriculture and Life Sciences, \$16,800 for laboratory analyses. (*Spending authority: \$0*)
- Sprinkle, J. E., J. B. Hall, **M. J. Ellison**, C. M. Willmore, and G. E. Chibisa. 2016. Determining optimal efficiency of beef cattle for Idaho rangelands. University of Idaho, Idaho Experiment Station, \$16,800 for laboratory analyses. (*Spending authority: \$0*)
- Sprinkle, J. E., J. B. Hall, **M. J. Ellison**, C. M. Willmore, and G. E. Chibisa. 2016. 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. (*Spending authority: \$0*)
- Ellison, M. J.** and K. M. Cammack. 2013. Improving feed efficiency in sheep through rumen manipulation and producer adoption. 2013 Western Sustainable Agriculture Research and Education Graduate Student Grant. University of Wyoming. \$25,000. (*Spending authority: N/A*)

#### **Unfunded:**

- Ellison, M. J.**, J. V. Yelich, and C. N. Southerland. 2022. Evaluating grazing selection preferences in rams. Western Sustainable Agriculture Research and Education Graduate Student Grant. University of Wyoming. \$29,534.
- Chibisa, G., B. Murdoch, T. Johnson, M. Chahine, **M. Ellison**, P. Rezamand, A. Ahmadzadeh, J. Hall, and J. Sprinkle. 2021. Acquisition of a GreenFeed system for production efficiency research across disciplines, and research, extension and education centers. USDA-NIFA-Equipment Grants Program – GRANT # 13323061. \$499,663.
- Wooten, F. and **M. J. Ellison**. 2019 Full-life cycle examination for bovine respiratory disease indicators. Foundation for Food and Agriculture Research (FFAR), Seeding Solutions: Addressing Challenges in Food and Agriculture Funding Opportunity. \$500,000.
- Packer, C., **M. J. Ellison**, and T. N. Johnson. 2019. Monitoring Greater sage-grouse populations in response to grazing management on Rinker Rock Creek Ranch. Cornell Land Trust Bird Conservation Initiative Small Grant. \$20,000.
- Willmore, C., S. Hines, J. Packham, P. Bass, M. Colle, **M. Ellison**, and J. Hall. 2018. Utilizing cover crops for background cattle in Idaho. Western Sustainable Agriculture Research and Education Grant. \$136,893.
- Sprinkle, J. E., J. B. Hall, K. S. Jensen, **M. J. Ellison**, J. K. Sagers, and J. B. Glaze. 2018. Determining optimal efficiency and production of beef cattle grazing western rangelands. USDA-NIFA-AFRI, Animal Nutrition, Growth and Lactation-A1231. \$499,599.
- Colle, M. J., J. B. Hall, **M. J. Ellison**, B. M. Murdoch, and J. E. Sprinkle. 2018. Multidisciplinary graduate training: Sustainable beef production – effect of the beef cow environment. USDA-NIFA. \$241,000.

- Ellison, M. J.**, C. J. Willmore, J. V. Yelich, S. Hines, and J. Packham. 2018. Comparing simulated and livestock grazing timing and regrowth of annual cereal forage cover crops. University of Idaho Office of Research and Economic Development Seed Grant. \$11,940.
- Sprinkle, J. E., J. B. Hall, **M. J. Ellison**, K. Launchbaugh, W. Prescott, and J. Foltz. 2017. Rock Creek Ranch virtual fence trial. Idaho Global Entrepreneurial Mission. \$111,144.
- Ellison, M. J.** and T. N. Johnson. 2017. Livestock management to facilitate sage-grouse habitat in wet meadows: effects of grazing intensity on preferred forbs. Idaho Fish and Wildlife Foundation, \$10,000.
- Ellison, M.J.**, and T. N. Johnson. 2017. Livestock management of wet meadows and desired conditions for greater sage-grouse. Western Sustainable Agriculture Research and Education Program; Research and Education Grant Pre-Proposal.
- Ellison, M.J.**, T. N. Johnson, and J. Yelich. 2017. Grazing to improve sage-grouse habitat. State of Idaho: Governor's Office of Species Conservation, Cooperative Sage-Grouse Project, \$14,020.
- Sprinkle, J. E., J. B. Hall, **M. J. Ellison**, S. Jensen, T. Covey, and W. Prescott. 2017. Identifying the optimum cow for rangeland sustainability and production efficiency. Idaho Beef Council. \$13,084.
- Hall, J. B., Sprinkle, J. E., **M. J. Ellison**, A. Laarman and M. Doumit. 2017. Impact of pre-weaning environment and early weaning on beef quality. Idaho Beef Council. \$32,460.
- Sprinkle, J. E., J. B. Hall, **M. J. Ellison**, C. M. Willmore, and G. E. Chibisa. 2016. Determining Optimal Efficiency and Production of Beef Cattle Grazing Western Rangelands. USDA-AFRI-NIFA, \$499,999.

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

- 2022 Excellence in Extension Team Award – University of Idaho Extension
- 2011-2016 Graduate Research Assistantship - University of Wyoming Animal Science
- 2014 Dick and Lynne Cheney Study Abroad Grant - University of Wyoming
- 2013 Beef Improvement Federation Travel Scholarship - Oklahoma State University
- 2013 Johnson Graduate Student Travel Scholarship - University of Wyoming
- 2010 Mill Family Scholarship - University of Wyoming
- 2010 University of Wyoming Dean's List
- 2009 Mary Mead Memorial Scholarship - University of Wyoming
- 2008 University of Wyoming Vice President for Academic Affairs Honor Roll

#### **SERVICE:**

##### **Major Committee Assignments:**

- University of Idaho Search Committee, Nancy M. Cummings REEC Research Specialist *2022-2023*
- Society for Range Management Sheep Symposium Committee, *2022-2023*
- American Society for Animal Science Small Ruminant Program Committee, *2023-2025*
- USDA-ARS-USSES Search Committee, Research Ecologist, *2022-2023*
- Idaho Rangeland Conservation Partnership Steering Committee (*Appointed*), *2021-Present*
- University of Idaho Animal, Veterinary and Food Sciences Dept., Extension Committee, *2021-Present*
- USDA Forest Service Central Idaho Resource Advisory Committee (*Appointed*), *2021-Present*
- University of Idaho Animal, Veterinary and Food Sciences Dept., Strategic Planning Committee, *2019-Present*
- University of Idaho Animal, Veterinary and Food Sciences Dept., Mary Turner Endowment Fund Review Panel, *2021-Present*
- USDA NIFA Equipment Grant Review Panel, *July-August 2022*
- Western Sustainable Agriculture and Research Education Program Farmer/Rancher Grant Review Panel, *December 2021-January 2022*
- Western Sustainable Agriculture and Research Education Program Research and Education Grant Review Panel, *December 2021-January 2022*
- University of Idaho Search Committee, Rangeland Center Communications Manager, *2021*
- University of Idaho Search Committee, Nancy M. Cummings REEC Operations Manager, *2020-2021*
- University of Idaho Animal, Veterinary and Food Sciences Dept., Research Committee, *2020-2021*

University of Idaho Animal, Veterinary and Food Sciences Dept., Graduate Curriculum Committee, 2020-2021  
 USDA NIFA Renewable Energy, Natural Resources, and Environment: Agroecosystem Management Program Grant Review Panel, 2020  
 USDA-ARS-USSES Search Committee, Rangeland Management Specialist, 2020  
 University of Idaho Animal, Veterinary and Food Sciences Dept., Undergraduate Production Curriculum Committee, 2020  
 University of Idaho Search Committee, US Sheep Experiment Station Operations Supervisor, 2019  
 University of Idaho Search Committee, Operations Supervisor, 2019  
 Graduate Student Journal Club Organizer, 2017-2018  
 University of Idaho Rangeland Center Fall Forum Planning Committee, 2016-Present  
 Range Livestock Symposium Planning Committee, 2016-Present  
 University of Idaho Search Committee, Beef Production Medicine Veterinarian position, 2016-2017

**Professional and Scholarly Organizations:**

|   |              |
|---|--------------|
| University of Idaho Water Resources Program – Affiliate Faculty     | 2021-Present |
| Idaho Society for Range Management                                  | 2016-Present |
| University of Idaho Rangeland Center – Affiliate Faculty            | 2016-Present |
| American Society of Animal Science                                  | 2011-Present |
| 2016-2018 ASAS Western Section Graduate Paper Competition Committee |              |
| 2014-2015 ASAS Western Section Graduate Student Director            |              |
| University of Idaho Beef Program of Distinction                     | 2016-2020    |
| Gamma Sigma Delta International Honor Society of Agriculture        | 2013-2016    |
| University of Wyoming Animal Science Graduate Association           | 2011-2016    |

**Editorial Services (peer-revisions, # of manuscripts revised)**

Meat Science – 1  
 PLOS Genetics – 2  
 Professional Animal Science – 1  
 Rangeland Ecology and Management – 1  
 Rangelands – 1  
 Small Ruminant Research – 1  
 Translational Animal Science – 5  
 Tropical Animal Health and Production – 1

**Outreach Service:**

|  |              |
|--|--------------|
| Central Idaho Rangelands Network – <i>UI Representative</i>  | 2018-Present |
| Lemhi Forest Restoration Group – <i>UI Representative</i>    | 2018-Present |
| Central Idaho Aspen Working Group – <i>UI Representative</i> | 2018-Present |

**Community Service:**

|   |              |
|---|--------------|
| Search and Rescue Dogs of the United States Member  | 2019-Present |
| Idaho State Search and Rescue Member  | 2018-Present |
| Officer ranks: Secretary (2019–2020)  |              |
| Lemhi County Search and Rescue Member   | 2018-Present |
| Officer ranks: Communications (2020 – 2021)   |              |
| Cattlemen Member – Lemhi County, Idaho  | 2017-Present |
| Benevolent and Protective Order of Elks #1620, Salmon, Idaho  | 2016-Present |
| Officer ranks: Tiler (2017); Esteemed Leading Knight (2018); Exalted Ruler (2019); Trustee (2020 - 2021), Secretary (2021-2023) |              |
| Steele Memorial Medical Center Hospital Board Member  | 2021-2022    |
| Cattlemen Member – Albany County, Wyoming   | 2014-2016    |

**PROFESSIONAL DEVELOPMENT:**

## **Scholarship:**

Western Section ASAS Meeting, Fort Collins, Colorado – October 18-20, 2021  
University of Idaho Rangeland Center Fall Forum, Virtual – October 5-7, 2021  
Northeast American Society for Animal Science, Virtual – April 6-7, 2021  
Society for Range Management Annual Meeting, Virtual – February 3-4, 2021  
Northwest Forage Worker’s Conference, Salmon, Idaho – October 15, 2019  
Western Section ASAS Meeting, Boise, Idaho – June 11-13, 2019  
University of Idaho Rangeland Center Retreat, McCall, Idaho – May 8-9, 2019  
University of Idaho Rangeland Center Fall Forum, Salmon, Idaho – October 4- 5, 2018  
Public Lands Council Annual Meeting, Park City, Utah – September 27- 29, 2018  
University of Idaho Rangeland Center Retreat, McCall, Idaho – May 5- 6, 2018  
University of Idaho Extension Annual Conference, Moscow, Idaho – April 2- 6, 2018  
University of Idaho Rangeland Center Fall Forum, Boise, Idaho – October 5-6, 2017  
University of Idaho Rangeland Center Retreat, McCall, Idaho – May 4-5, 2017  
12<sup>th</sup> Western States and Provinces Deer and Elk Workshop, Sun Valley, Idaho – May 2-4, 2017  
University of Idaho Extension Annual Conference, Burley, Idaho – March 3-6, 2017  
National Sheep Genetics Research Planning Meeting, USMARC, Clay Center, Nebraska – November 30-December 2, 2016  
Public Lands Council Annual Meeting, Boise, Idaho – September 7-8, 2016  
US Sheep Experiment Station 100<sup>th</sup> Anniversary Celebration, Dubois, Idaho – August 23-25, 2016  
University of Idaho New Faculty Orientation – August 15-19, 2016  
W2012 Multi-State Hatch Annual Meeting, Scottsbluff, Nebraska – August 7-9, 2016  
American Society of Animal Science Joint Annual Meeting, Salt Lake City, Utah – July 19-22, 2016  
Idaho 5<sup>th</sup> Grazing Livestock Nutrition Conference, Park City, Utah – July 17-19, 2016  
Plant and Animal Genome Meeting XXIV, San Diego, California – January 9-13, 2016  
High Plains Nutrition & Management Roundtable, Lingle, Wyoming – September 10, 2015  
Western Section ASAS Meeting, Ruidoso, New Mexico – June 23-26, 2015  
Plant and Animal Genome Meeting XXIII, San Diego, California – January 10-14, 2015  
High Plains Nutrition & Management Roundtable, Brule, Nebraska – August 28, 2014  
Plant and Animal Genome Meeting XXII, San Diego, California – January 10-14, 2014  
Western Section ASAS Meeting, Bozeman, Montana – June 19-22, 2013  
Beef Improvement Federation Annual Meeting, Oklahoma City, Oklahoma – June 12-15, 2013  
Midwestern Section ASAS Meeting, Des Moines, Iowa – March 11-13, 2013  
Plant and Animal Genome Meeting XXI, San Diego, California – January 11-16, 2013  
University of Wyoming Extension Beef Artificial Insemination School, Riverton, Wyoming – November 26 and December 3, 2012  
American Angus Association Cattlemen’s Boot Camp, Laramie, Wyoming – September 28-29, 2012  
Colorado Nutrition Roundtable, Nunn, Colorado – September 20, 2012  
ASAS Joint Annual Meeting, Phoenix, Arizona – July 15-19, 2012  
Range Beef Cow Symposium XXII, Mitchell, Nebraska – November 29-December 1, 2011  
Colorado Nutrition Roundtable – September 9, 2011

## **Outreach: Annual Stakeholder Meetings and Conventions (UI Representative and/or Speaker):**

Idaho Cattle Association Convention, Sun Valley, Idaho – November 14-16, 2022  
West Central States Wool Growers Convention, Park City, Utah – November 10-12, 2022  
University of Idaho Advanced Ranch Management School, Salmon, Idaho – September 26-28, 2022  
Little Salmon River Watershed Collaborative Meeting, Virtual – February 8, 2022  
University of Idaho Lemhi County Extension Cattlemen’s Winter School, Salmon, Idaho – January 11, 2022  
University of Idaho Lemhi County Extension Ladies Raising Livestock Workshop – December 3, 2021  
Idaho Wool Grower’s Association Annual Meeting, Twin Falls, Idaho – November 20, 2021  
Rocky Mountain Katahdin Association Annual Meeting, Dubois, Idaho – June 10, 2021  
North Fork Payette River Watershed Summit. Virtual – March 8, 2021  
University of Idaho Lemhi County Extension Cattlemen’s Winter School, Virtual – January 26, 2021  
Idaho Range Livestock Symposium, Virtual – January 12, 2021.  
Idaho Cattle Association/ Idaho Wool Growers Association Summer Roundup Annual Meeting. Burley, Idaho – June 24, 2020.

University of Idaho Lemhi County Extension Cattlemen's Winter School, Salmon, Idaho – November 20, 2019  
West Central States Wool Growers Convention, Evanston, Wyoming – November 7-10, 2019  
University of Idaho Nancy M. Cummings Research, Extension and Education Center Bred Heifer Sale and Cow-Calf Days, Carmen, Idaho – October 25, 2019.  
38<sup>th</sup> Annual Utah Beef Cattle Field Day, Provo, Utah – February 12, 2019  
University of Idaho Lemhi County Extension Cattlemen's Winter School, Salmon, Idaho – January 15 & 22, 2019 and February 5, 2019  
Idaho Rangeland Conservation Partnership Meeting, Boise, Idaho – January 15-16, 2019  
Idaho Range Livestock Symposium, Rigby, Idaho – January 10, 2019.  
West Central States Wool Growers Convention, Sun Valley, Idaho – November 8-10, 2018  
University of Idaho Lemhi County Extension Cattlemen's Winter School, Salmon, Idaho – January 9, 2018 and February 13, 2018  
West Central States Wool Growers Convention, Sun Valley, Idaho – November 9-11, 2017  
Idaho Governor's Trail Ride, Kilgore, Idaho – July 19, 2017  
Rock Creek Ranch Advisory Committee Tour – June 28, 2017  
Idaho Cattle Association Summer-Roundup Meeting, Jackpot, Nevada – June 21-23, 2017  
Magic Valley Livestock School, Gooding, Idaho – January 31, 2017  
Idaho Range Livestock Symposium, Salmon, Idaho – January 10, 2017  
University of Idaho Lemhi County Extension Cattlemen's Winter School, Salmon, Idaho – January 3, 17, and 24, 2017 and February 7, 2017  
West Central States Wool Growers Convention, Sun Valley, Idaho – November 17-19, 2016  
Idaho Cattle Association Convention, Sun Valley, Idaho – November 14-16, 2016  
Idaho Governor's Trail Ride, Mackay, Idaho – June 29, 2016  
Idaho Cattle Association Summer-Roundup Meeting, Post Falls, Idaho – June 22-23, 2016  
Idaho Range Livestock Symposium, Challis, Idaho – April 21, 2016  
Northeast Wyoming Sheep Symposium, Buffalo, Wyoming – December 11, 2014  
Annual West Central States Wool Growers Convention, Park City, Utah – November 5-7, 2015