

**J. Derek Scasta**  
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**Curriculum Vitae - 2024**

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## **ACADEMIC PREPARATION**

- Ph.D. Natural Resource Ecology and Management, Oklahoma State University (8/2014)**  
*Dissertation: Implications of pyric-herbivory on Central North American grassland ecology, management and production*  
 Advisor: Dr. Dave Engle
- M.S. Crop Science, Texas Tech University (12/2008)**  
*Thesis: Screening of alfalfa (Medicago sativa) cultivars for salt tolerance in west Texas*  
 Co-Advisors: Dr. Calvin Trostle and Dr. Mike Foster
- B.S. Rangeland Ecology and Management, Texas A&M University (5/2004)**  
*Option: Watershed management*

## **CERTIFICATIONS**

**Certified Wildland Fire Ecologist**, Association for Fire Ecology (2015 - Present)

**Certified Professional in Rangeland Management (CPRM)**, Society for Range Management (2011 – Present)  
 #CP11-002 (Renewed every 2 years with CEUs; *Next renewal due 7/31/2025*)

**Research Ethics and Compliance Trainings**, Collaborative Institutional Training Initiative (CITI)

- **Responsible Conduct of Research (Physical Science, Basic 1)**. Completed 6/27/2011 (6181560)
- **Human Subjects Research, Social/Behavioral Research**. Completed 9/2/2015 (14521599); Re-Completed 7/3/2019 (27335319), Renewed 3/25/2023 (41935657); Expires 3/25/2026.
- **Working with IACUC – Investigators, Staff and Students, Lab Animal Research**. Completed 4/30/2018 (26920827), Renewed 3/25/2023 (40651220); Expires 3/25/2026.
- **Wildlife Research, Lab Animal Research**. Completed 11/7/2014 (14521600), Renewed 9/17/2018 (24101982), Renewed 3/25/2023 (43170776); Expires 3/25/2026.
- **Working with Cattle in Agricultural Research Settings**. Completed 1/10/2017 (21890744), Renewed 3/23/2020 (33741625), Renewed 3/25/2023 (53306670); Expires 3/25/2026.
- **Working with Sheep and Goats in Research Settings**. Completed 3/23/2020 (36033930), Renewed 3/25/2023 (53306671); Expires 3/25/2026.

**Non-Commercial Pesticide Applicator License**, Texas Department of Agriculture, #0438413; Category 1C – Weed and Brush Control for Pasture and Rangeland (2005 - 2011)

## **PROFESSIONAL EXPERIENCE**

- |                  |  |
|------------------|--|
| 8/2014 – Present | <b>University of Wyoming</b> , Department of Ecosystem Science and Management, <i>Associate Professor</i> (2020-Present), Assistant Professor (2014-2020); <i>State Extension Rangeland Management Specialist</i> (2014-Present); <i>Associate Director for the Laramie Research and Extension Center (LREC)</i> , UW Agricultural Experiment Station (AES) (2023-Present) |
| 5/2011 – 8/2014  | <b>Oklahoma State University</b> , Department of Natural Resource Ecology and Management, <i>Graduate Research Associate</i>   |
| 9/2004 – 5/2011  | <b>Texas A&amp;M University System</b> , Texas AgriLife Extension Service; <i>Navarro County Extension Agent</i> - Agriculture & Natural Resources (2007-2011); <i>Ward County Extension Agent</i> - Agriculture & Natural Resources; 4-H Coordinator (2004-2007)  |

**PUBLICATIONS** (undergraduate student<sup>†</sup>; graduate student<sup>‡</sup>)**BOOKS**

Weir, J.R. and **J.D. Scasta** (Editors). 2022. Global Applications of Prescribed Fire. CSIRO Publishing, Clayton, Australia and CRC Press, Boca Raton, Florida, USA.

**BOOK CHAPTERS**

**Scasta, J.D.**, D. Twidwell, V. Donovan, C. Roberts, E. Thacker, R. Wilbur, S. Fuhlendorf. In Review. Chapter 6 Role and Management of Fire in Rangelands, In: Rangeland Wildlife Ecology and Conservation (Eds. L.B. McNew, D.K. Dahlgren, J.L. Beck). Springer Publishing. New York, NY, USA.

Petersen, S., **J.D. Scasta**, K.A. Schoenecker, J.D. Hennig. In Review. Chapter 21 Wild Equids, In: Rangeland Wildlife Ecology and Conservation (Eds. L.B. McNew, D.K. Dahlgren, J.L. Beck). Springer Publishing. New York, NY, USA.

**Scasta, J.D.**, J.R. Weir. 2022. Chapter 1 Introduction to Global Application of Prescribed Fire, In: Global Applications of Prescribed Fire (Eds. J.R. Weir, J.D. Scasta). CSIRO Publishing, Clayton, Australia and CRC Press, Boca Raton, Florida, USA.

Weir, J.R., **J.D. Scasta**. 2022. Chapter 16 Epilogue, In: Global Applications of Prescribed Fire (Eds. J.R. Weir, J.D. Scasta). CSIRO Publishing, Clayton, Australia and CRC Press, Boca Raton, Florida, USA.

Forest Service – National Prescribed Fire Assessment, Chapter 7: Grasslands and Shrublands. In Review.

Forest Service – National Prescribed Fire Assessment, Chapter 8: Restoration. In Review.

**REFEREED JOURNAL ARTICLES IN REVIEW/REVISION, IN PRESS, IN PRINT – 90 Total (in order of acceptance)**

*Accepted, In Press, or In Print; Journal impact for #1-50 in 2020 noted as Impact Factor (IF), 5 Year Impact Factor (5YIF), Cite Score (CS), and/or h5-index (h5) as reported by the journal, Google Scholar Metrics, and/or SciMago.*

**Manuscripts in revision**

Julian, A.<sup>‡</sup>, **J.D. Scasta**, and W. Stewart. *In Revision*. Sheep winter diets parameterized with fecal DNA metabarcoding and forage sampling informs mineral nutrition management. *Rangeland Ecology & Management* REMA-D-23-00202R1.

Schoenecker, K.A., S.R.B. King, J.D. Hennig, M.J. Cole, **J.D. Scasta**, and J.L. Beck. *In Revision*. Effects of telemetry collars on two free-roaming feral equid species. *PLOS One* PONE-D-23-16030R1.

Wade, N.M.<sup>‡</sup>, L.T. Vermeire, and **J.D. Scasta** *In Revision*. Fire restoration and exotic plant responses to phreatophytic *Sarcobatus vermiculatus* rangelands with contrasting degradation. *Global Ecology and Conservation* GECCO-D-23-01218.

Furquim, F.F.<sup>‡</sup>, **J.D. Scasta**, and G. Overbeck. *In Revision*. Interactive effects of fire and grazing on vegetation structure and plant species composition in subtropical grasslands. *Applied Vegetation Science* AVS-RES-03364

**Manuscripts accepted, in-press, or published**

90. Wade, N.M.<sup>‡</sup>, L.T. Vermeire, and **J.D. Scasta**. *Accepted*. Fire seasonality and herbicide effects on *Sarcobatus vermiculatus* survival and structure in western Great Plains. *Rangeland Ecology & Management* REMA-D-23-00135R1

89. Newman, C., C. Gifford, **J.D. Scasta**, W. Stewart. *Accepted*. U.S. wool industry perceptions of digital record keeping and wool supply-chain traceability. *Applied Animal Science* aas-2023-02496

88. Jorns, T.R.<sup>‡</sup>, **J.D. Scasta**, J.D. Derner, D.J. Augustine, L.M. Porensky, E.J. Raynor, and CARM Stakeholder Group. 2024. Adaptive multi-paddock grazing reduces cattle diet quality and alters within-season diet composition in shortgrass steppe. *The Rangeland Journal*, *In Press*.

87. Hennig, J.<sup>‡</sup>, J. Beck, and **J.D. Scasta**. 2024. Feral horses and pronghorn: a test of the forage maturation hypothesis+ in an arid shrubland. *Animal Behaviour* 210: 55-61.
86. Frey, N., J.L. Beck, L. Singletary, L. Snell, **J.D. Scasta**, and J. Hadfield. 2024. Western U.S. residents' knowledge of wild free-roaming horses and their management on federal public lands. *Rangeland Ecology & Management* 92: 12-23.
85. Wilbur, R.<sup>‡</sup>, K. Maczko, and **J.D. Scasta**. 2023. Setting the Land Ablaze: Rancher perceptions and experience with wildfire may not be a deterrent to prescribed burning on U.S. Central Rocky Mountain rangelands. *Western Economics Forum* 21(2): 34-42.
84. Gergini, T.<sup>‡</sup>, **Scasta, J.D.**, K. Maczko, S. Paisley, and J. Tanaka. 2023. Temporal variability drives soil chemical and biological dynamics more than grazing in a northern mixed-grass prairie. *Plant, Soil and Environment* 69(7): 344-362.
83. **Scasta, J.D.**, C. Visconti<sup>‡</sup>, H. Fraley<sup>‡</sup>, T. Hoffman<sup>‡</sup>, C. Borer<sup>‡</sup>, G. Cameron<sup>†</sup>, K. Chambers<sup>†</sup>, O. Chase<sup>†</sup>, B. Daugherty<sup>†</sup>, G. Gassaway<sup>†</sup>, L. Kleve<sup>†</sup>, X. Michael-Young<sup>†</sup>, K. Mitchem<sup>†</sup>, J. Nelson<sup>†</sup>, T. Shreve<sup>†</sup>, J. Toelle<sup>†</sup>, C. Wangnild<sup>†</sup>, C. Wells<sup>†</sup>, and G. Wiley<sup>†</sup>. 2023. Prescribed fire case studies in Wyoming USA: diverse applications and common themes at the Great Plains-Rocky Mountain interface. *Case Studies in the Environment* 7(1): 2003840.
82. **Scasta, J.D.**, S. Leverkus, D. Tisseur, and G. Leverkus. 2023. Vegetation response to a natural gas pipeline rupture in Canada's montane cordillera. *Ecology, Energy and Environment* 8(5): 457-470.
81. Hennig, J.D.<sup>‡</sup>, C.J. Duchardt, S. Esmaeili, S.D. Fuhlendorf, J.L. Beck, T.I. Fancisco, and **J.D. Scasta**. 2023. A crossroads in the rear-view mirror: the state of United States feral equid management in 2023. *BioScience* 73(6): 404-407.
80. **Scasta, J.D.**, T. Gergini<sup>‡</sup>, K. Maczko, S. Paisley, and J. Tanaka. 2023. Adaptive grazing and animal density implications for stocking rate and drought in northern mixed-grass prairie. *Livestock Science* 269: 105184.
79. Gergeni, T.<sup>‡</sup>, **J.D. Scasta**, K. Maczko, and J. Tanaka. 2023. Ranch-scale soil health, forage quality, and cattle grazing capacity linkages in a high-elevation steppe. *Arid Land Research and Management* 37(2): 155-183.
78. Hennig, J.<sup>‡</sup>, **J.D. Scasta**, A. Pratt, C. Wanner, and J. Beck. 2023. Resource selection and space use overlap between feral horses, pronghorn, and greater sage-grouse in cold-arid-steppe. *Journal of Wildlife Management* 87(1): e22329.
77. Sas-Jaworsky, A., and **J.D. Scasta**. 2022. Wyoming's Wild Horse Ranch: history and description of a socio-ecological experiment. *Human-Wildlife Interactions* 16(2): 308-316.
76. Frey, N.S., J.L. Beck, **J.D. Scasta**, and L. Singletary. 2022. U.S. public opinion of reproductive control options for free-roaming horses on western public lands. *Human-Wildlife Interactions* 16(2): 217-232.
75. Jorns, T.R.<sup>‡</sup>, D.J. Augustine, D.D. Briske, L.M. Porensky, **J.D. Scasta**, J.L. Beck and S. Lake. 2022. Movement dynamics and energy expenditure of yearling steers under contrasting grazing management in shortgrass steppe. *Rangeland Ecology & Management* 85: 38-47.
74. Frey, S.N., **J.D. Scasta**, J.L. Beck, L. Singletary, and L.K. Snell. 2022. Public knowledge of free-roaming horses in the United States. *Proceedings of the Vertebrate Pest Conference* 30: 30.
73. Duchardt, C., D. Augustine, L. Porensky, J. Beck, J. Hennig, D. Pellatz, **J.D. Scasta**, L. Connell, and A. Davidson. 2022. Disease and weather induce rapid shifts in a rangeland ecosystem mediated by a keystone species (*Cynomys ludovicianus*). *Ecological Applications* 33(1): e2712.
72. Benjamin, R. S.<sup>‡</sup>, B.R. Stam, and **J.D. Scasta**. 2022. Refining Robel Pole applications for grazed Idaho fescue grasslands in the Big Horn Mountains, Wyoming. *Rangeland Ecology & Management* 83: 161-174.

71. Hennig, J.D.<sup>‡</sup>, W. Rigsby, B. Stam, and **J.D. Scasta**. 2022. Distribution of Salers cows in contrasting rangeland pastures relative to established slope and water thresholds. *Livestock Science* 257: 104843.
70. Van Syoc, E.<sup>‡</sup>, S.E. Albeke, **J.D. Scasta**, and L.T.A. Diepen. 2022. Quantifying the immediate response of the soil microbial community to different grazing intensities on irrigated pastures. *Agriculture, Ecosystem & Environment* 326: 107805.
69. **Scasta, J.D.**, E. Thacker, J.D. Hennig, and K. Hoopes. 2022. Dehydration and mortality of feral horses and burros: a systematic review of reported deaths. *Human-Wildlife Interactions* 16(2): 9.
68. Wilbur, R.<sup>‡</sup>, C. Stanley, K. Maczko, and **J.D. Scasta**. 2021. Perceptions of NRCS assistance with prescribed burning on U.S. private lands: a regionally stratified case study. *Fire* 4(3): 47.
67. Esmaeili S, B.R. Jesmer, S.E. Albeke, E.O. Aikens, S.R.B. King, K.A. Schoenecker, B. Abrahms, B. Buuveibaatar, J.L. Beck, R.B. Boone, F. Cagnacci, S. Chamailé-Jammes, B. Chimeddorj, P.C. Cross, N. Dejid, J. Enkhbyar, I.R. Fischhoff, A.T. Ford, K. Jenks, M.R. Hemami, J.D. Hennig, T.Y. Ito, P. Kaczensky, M. J. Kauffman, J.D.C. Linnell, B. Lkhagvasuren, J.F. McEvoy, J. Melzheimer, J.A. Merkle, T. Mueller, J. Muntifering, A. Mysterud, K.A. Olson, M. Panzacchi, J.C. Payne, L. Pedrotti, G.R. Rauset, D.I. Rubenstein, H. Sawyer, **J.D. Scasta**, J. Signer, M. Songer, J.A. Stabach, S. Stapleton, O. Strand, S.R. Sundaresan, D. Usukhjargal, G. Uuganbayar, J.M. Fryxell, and J.R. Goheen. 2021. Body size and digestive system shape resource selection by ungulates: a cross-taxa test of the Forage Maturation Hypothesis. *Ecology Letters* 24(10): 2178-2191.
66. Hennig, J.<sup>‡</sup>, J.L. Beck, C.J. Duchardt, and **J.D. Scasta**. 2021. Variation in sage-grouse habitat quality metrics across a gradient of feral horse use. *Journal of Arid Environments* 192: 104550.
65. **Scasta, J.D.**, J. Hennig<sup>‡</sup>, and C.M. Calkins<sup>‡</sup>. *Accepted 4/25/2021*. Feral horse cause-specific mortality relative to mustering (gathering) and individual demographic attributes in the USA. *Wildlife Research*
64. **Scasta, J.D.** 2021. Albedo and thermal ecology of white, red, and black cows (*Bos taurus*) in a cold rangeland environment. *Animals* 11(5): 1186.
63. Derner, J.D., B. Budd, G. Grissom, E.J. Kachergis, D.J. Augustine, H. Wilmer, **J.D. Scasta**, and J.P. Ritten. 2021. Adaptive grazing management in semiarid rangelands: An outcome-driven focus. *Rangelands*
62. Stewart, W.C., **J.D. Scasta**, T.W. Murphy, J.B. Taylor, and A.M. Julian<sup>‡</sup>. 2021. Invited Review: Sheep mineral nutrition considerations for extension production systems. *Applied Animal Science* 37(3): 256-272.
61. **Scasta, J.D.**, R.L. McCulley, D.M. Engle, and D. Debinski. 2021. Patch burning tall fescue invaded grasslands alters alkaloids and tiller defoliation with cattle toxicosis implications. *Rangeland Ecology and Management* 75: 130-140.
60. Calkins, C.M.<sup>‡</sup>, and **J.D. Scasta**. 2021. Beef cow blood hematocrit (Hct) estimates comparing centrifugation to point-of-care analysis in a high-altitude environment. *Veterinary Clinical Pathology* 50(3): 354-358.
59. Wilbur, R.<sup>‡</sup>, and **J.D. Scasta**. 2021. Participant motivations for the Wyoming Prescribed Fire Council (PFC): emergence from a regional void. *Rangelands* RANGE-S-20-00019
58. Hennig, J.<sup>‡</sup>, J. Beck, C. Gray, and **J.D. Scasta**. 2021. Temporal overlap among feral horses, cattle, and native ungulates at water. *Journal of Wildlife Management* 85(6): 1084-1090.
57. Julian, A.A.<sup>‡</sup>, **J.D. Scasta**, B.R. Stam, B.M. Sebade, C.M. Page, B.E. Springer, W.T. Renner, H. Cunningham-Hollinger, and W.C. Stewart. 2020. Mineral element concentrations of common grass and shrub species on sheep winter range in Wyoming: insights for mineral supplementation strategies. *Translational Animal Science* 4(S1), S11-S16.
56. Friday, C.<sup>‡</sup>, and **J.D. Scasta**. 2020. Checklist of vascular plants for Wind River Indian Reservation (USA) high-

- elevation basins: ecological drivers of community assemblages. *Plant Ecology and Evolution* 153: 292-311.
55. **Scasta, J.D.**, M. Adams, R. Gibbs, and B. Fleury. 2020. Free-ranging horse management in Australia, New Zealand and the United States: socio-ecological dimensions of a protracted environmental conflict. *The Rangeland Journal* 42: 1-17.
  54. Hennig, J.<sup>‡</sup>, **J.D. Scasta**, J.L. Beck, K. Schoenecker, and S. King. 2020. Systematic review of equids and telemetry collars: implications for deployment and reporting. *Wildlife Research* 47(5): 361-371.
  53. Calkins, C.M.<sup>‡</sup>, and **J.D. Scasta**. 2020. Transboundary Animal Diseases (TADs) affecting African domestic and wild ungulates from 1996-2018: African Swine Fever, Foot and Mouth Disease, Rift Valley Fever. *Research in Veterinary Science* 131: 69-177.
  52. Friday, C.<sup>‡</sup>, and **J.D. Scasta**. 2020. Eastern Shoshone and Northern Arapaho Indigenous Ecological Knowledge (IEK) and Ethnobotany for Wind River Reservation Rangelands. *Ethnobiology Letters* 11: 14-24.
  51. **Scasta, J.D.**, T. Jorns<sup>‡</sup>, J.D. Derner, B. Stam, M. McClaren, C. Calkins<sup>‡</sup>, and W. Stewart. 2020. Technical Note: Toxic plants in sheep diets grazing extensive landscapes: Insights from Fecal DNA metabarcoding. *Livestock Science* 236, 104002.
  50. **Scasta, J.D.** 2020. Mortality and operational attributes relative to feral horse and burro capture techniques based on publicly available data from 2010-2019. *Journal of Equine Veterinary Science* 86: 102893. (IF=0.927, CS=0.89, h5=18)
  49. Smart, A., K. Harmoney, **J.D. Scasta**, M.B. Stephenson, J.D. Volesky, L.T. Vermeire, J. Mosely, K. Sedivec, M. Meehan, T. Haigh, J. Derner, and M. McClaran. 2019. Critical decision dates for drought management in central and northern Great Plains rangelands. *Rangeland Ecology and Management* (5YIF=2.191, h5=24)
  48. Reynolds, A.<sup>†</sup>, D. Augustine, L. Porensky, H. Wilmer, T. Jorns, D. Briske, **J.D. Scasta**, M. Fernandez-Gimenez, CARM Stakeholder Group. 2019. Ecological sites: Can they be managed to promote livestock production?. *Rangelands* 41: 239-243. (IF=0.936, CS=1.08, h5=11)
  47. **Scasta, J.D.**, T. Jorns<sup>‡</sup>, J. Derner, S. Lake, D. Augustine, J. Windh, and T. Smith. 2019. Validation of DNA metabarcoding of fecal samples using cattle fed known rations. *Animal Feed Science and Technology* 255: 114219. (5YIF=2.716, CS=2.74, h5=36)
  46. **Scasta, J.D.**, K.L. Koepke, and W. Stewart. 2019. Responses in vegetative selection and diet quality for dissimilar sheep breeds under targeted grazing of yellow sweetclover. *Applied Animal Science* 35(4): 441-453. doi: 0.15232/aas.2019-01844 (IF=0.657, h5=14)
  45. Calkins, C.M.<sup>‡</sup>, **J.D. Scasta**, T. Smith, M.M. Stayton, and Scott L. Lake. In Press. *Haematobia irritans* parasitism of F1 yak × beef cattle (*Bos grunniens* × *B. taurus*) hybrids. *Medical and Veterinary Entomology*. doi:10.1111/mve.12382 (IF=2.027, h5=23)
  44. Gergeni, T.M.<sup>‡</sup>, and **J.D. Scasta**. In Press. Are SSURGO organic matter estimates reliable for cold arid steppe? Implications for rangeland soil health. *Arid Land Research and Management* 33: 468-475. doi:10.1080/15324982.2019.1573388 (IF=0.985, h5=12)
  43. Connell, L.C.<sup>‡</sup>, L.M. Porensky, A.D. Chalfoun, and **J.D. Scasta**. 2019. Black-tailed prairie dog (*Cynomys ludovicianus*) metapopulation response to conspecific signals from a novel source. *Animal Behaviour*. 150: 189-199. doi:10.1016/j.anbehav.2019.02.004 (5YIF=3.101, CS=2.73, h5=44)
  42. **Scasta, J.D.** 2019. Why are humans so emotional about feral horses? A spatiotemporal review of the psycho-ecological evidence with global implications. *Geoforum* 103: 171-175. doi:10.1016/j.geoforum.2018.12.007 (5YIF=3.635, CS=3.35, h5=54)
  41. Windh, J.L.<sup>‡</sup>, **J.D. Scasta**, and B. Stam. 2019. Contemporary livestock-predator themes identified through a

- Wyoming, USA rancher survey. *Rangelands* 41(2): 94-101. doi:10.1016/j.rala.2018.11.007 (IF=0.936, CS=1.08, h5=11)
40. **Scasta, J.D.**, and T. Smith. 2018. Commingled black and white cows (*Bos taurus*; Angus and Charolais) in high-elevation rangeland are differentially parasitized by *Haematobia irritans*. *Animal Production Science* 59(9): 1727-1738. doi: 10.1071/AN18400 (IF=1.371, h5=28)
  39. Connell, L.C.<sup>‡</sup>, L.M. Porensky, and **J.D. Scasta**. 2019. Prairie dog (*Cynomys ludovicianus*) influence on forage quantity and quality in a grazed grassland-shrubland ecotone. *Rangeland Ecology and Management* 72(2): 360-373. doi: 10.1016/j.rama.2018.10.004 (5YIF=2.191, h5=24)
  38. Connell, L.C.<sup>‡</sup>, **J.D. Scasta**, and L.M. Porensky. 2018. Prairie dogs and wildfires shape vegetation structure in a sagebrush grassland more than does rest from ungulate grazing. *Ecosphere* 9(8): e02390. doi:10.1002/ecs2.2390 (IF=2.746, h5=42)
  37. **Scasta, J.D.**, J.L. Windh<sup>†</sup>, and B. Stam. 2018. Modeling large carnivore and ranch attribute effects on livestock predation and non-lethal losses. *Rangeland Ecology and Management* 71(6): 815-826. doi:10.1016/j.rama.2018.04.009 (5YIF=2.191, h5=24)
  36. **Scasta, J.D.**, K.J. Welter<sup>†</sup>, and C. Friday<sup>‡</sup>. 2019. Common values and themes for grazed open spaces: 'Plant diversity' and 'watershed' as communication intersections for agriculture and conservation groups? *Environmental Communication* 13(6): 761-774. doi:10.1080/17524032.2018.1457066 (IF=1.360, h5=29)
  35. **Scasta, J.D.**, J.D. Hennig<sup>‡</sup>, and J.L. Beck. 2018. Framing contemporary U.S. wild horse and burro management processes in a dynamic ecological, sociological, and political environment. *Human-Wildlife Interactions* 12(1): 31-45. (IF=0.786, CS=0.59, H5=9)
  34. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, and J.L. Beck. 2018. Spatial ecology observations from feral horses equipped with global positioning system transmitters. *Human-Wildlife Interactions* 12(1): 75-84. (IF=0.786, CS=0.59, H5=9)
  33. Leverkus, S.E.R, S.D. Fuhlendorf, M. Geertsema, B.W. Allred, M. Gregory, A.R. Bevington, D.M. Engle, and **J.D. Scasta**. 2018. Resource selection of free-ranging horses influenced by fire in northern Canada. *Human-Wildlife Interactions* 12(1): 85-101. (IF=0.786, CS=0.59, H5=9)
  32. Overbeck, G., **J.D. Scasta**, F. Furquim<sup>‡</sup>, I. Boldrini, and J. Weir. 2018. The South Brazilian grasslands – a South American Tallgrass Prairie? Parallels and implications of fire dependency. *Perspectives in Ecology and Conservation* 16: 24-30. doi:10.1016/j.pecon.2017.11.002 (5YIF=2.565, CS=3.14)
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6. **Scasta, J.D.**, and B.S. Rector. 2014. Drought and ecological site interaction on plant composition of a semi-arid rangeland. *Arid Land Research and Management* 28(2): 197-215. doi: 10.1080/15324982.2013.824046 (IF=0.985, h5=12)
5. **Scasta, J.D.**, D.M. Engle, J.L. Talley, J.R. Weir, J.C. Stansberry, S.D. Fuhlendorf, and R.N. Harr. 2012. Pyric-herbivory to manage horn flies (Diptera: Muscidae) on cattle. *Southwestern Entomologist* 37: 325-334 doi:10.3958/059.037.0308 (IF=0.565, h5=13)
4. **Scasta, J.D.**, C.L. Trostle, and M. A. Foster. 2012. Evaluating alfalfa (*Medicago sativa* L.) cultivars for salt tolerance using laboratory, greenhouse and field methods. *Journal of Agricultural Science* 4(6): 90-103 doi:10.5539/jas.v4n6p90 (IF=2.28, h5=19)
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1. **Scasta, J.D.** 2010. Monitoring utilization of pasture and rangeland forage to assist grazing management decisions: a Central Texas county case study. *Journal of the National Association of County Agriculture Agents (NACAA)* 3(1). (IF=NA, h5=NA, ISSN 2158 9429)

**PEER-EDITED EXTENSION PRODUCTS (undergraduate student<sup>†</sup>; graduate student<sup>‡</sup>) – 31 Total**

31. Fogarty, D., C. Matzke, M.L. Treadwell, C. Baldwin, L. Goodman, T. Hovik, A. Overlin, **J.D. Scasta**, A. Thompson, D. Twidwell. 2023. GPGEU-UNL-03 Integrated pest management for woody encroachment. *Great Plains Grasslands Extension Partnership* (10 land grant Universities represented). [https://uploads-ssl.webflow.com/60143e4f3362793ccc653755/648c6c222964f2f00eaf3749\\_GPGEU\\_UNL\\_03\\_IPM.pdf](https://uploads-ssl.webflow.com/60143e4f3362793ccc653755/648c6c222964f2f00eaf3749_GPGEU_UNL_03_IPM.pdf)
30. Fogarty, D., C. Matzke, M.L. Treadwell, C. Baldwin, L. Goodman, T. Hovik, A. Overlin, **J.D. Scasta**, A. Thompson, D. Twidwell. 2023. GPGEU-UNL-02 Remove, reduce, or manipulate?: Best practices for brush management conservation standards in Great Plains grasslands. *Great Plains Grasslands Extension Partnership* (10 land grant Universities represented). <https://uploads->

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29. Fogarty, D., C. Baldwin, P. Bauman, J. Beaver, R. Bruegger, D. Cram, L. Goodman, T. Hovick, A. Overlin, **J.D. Scasta**, C. Spackman, A. Thompson, M.L. Treadwell, D. Twidwell. 2023. GPGE UNL-01 Rangeland production lost to woody encroachment in Great Plains grasslands. *Great Plains Grasslands Extension Partnership* (10 land grant Universities represented). [https://uploads-ssl.webflow.com/60143e4f3362793ccc653755/648c6c2756e0d93576b382bd\\_GPGE UNL\\_01\\_Production%20Losses.pdf](https://uploads-ssl.webflow.com/60143e4f3362793ccc653755/648c6c2756e0d93576b382bd_GPGE UNL_01_Production%20Losses.pdf)
  28. **Scasta, J.D.**, C. Calkins<sup>‡</sup>, S. Rosasco, J. Connett, S. Schell. 2022. B-1386 Horn fly management for Wyoming beef cattle. *University of Wyoming Bulletin*. <https://www.wyoextension.org/agpubs/pubs/B-1386.pdf>.
  27. C. Baldwin, J. Weir, M. Treadwell, P. Bauman, **J.D. Scasta**, D. Cram, L. Bammerlin, D. Twidwell. 2022. Benefits of rangeland burning. *Great Plains Fire Science Exchange Factsheet 2022-1*. <https://gpfirescience.org/wp-content/uploads/2022/07/Benefits-of-rangeland-prescribed-burning-FINAL-July-5-2022.pdf>
  26. J. Quintana, W. Stewart, **J.D. Scasta**. 2022. B-1379 Supplementation considerations for ewes managed on dormant winter pastures and rangelands. *University of Wyoming Bulletin*. <https://www.wyoextension.org/agpubs/pubs/B-1379-ewe-web.pdf>
  25. D. Twidwell, D.T. Fogarty, J.R. Weir, C.E. Baldwin, P. Bauman, D. Cram, L. Goodman, R.F. Limb, J.D. Scasta, M.L. Treadwell. 2021. E-1054 Reducing woody encroachment in grasslands: A guide for understanding risk and vulnerability. *Oklahoma State University Factsheet with Cooperating Land Grant Universities in the Great Plains*. <https://www.wlfw.org/assets/greatPlainsMaterials/E-1054WoodyEncroachment.pdf>
  24. H. Barkley, K. Clause, J. Mangold, T. Nelson, N. Orloff, M. Pokorny, **J.D. Scasta**, B. Stam, S. Tallman, D. Tekeila. 2020. B-1359 Plants poisonous to livestock in Montana and Wyoming: Considerations for reducing production losses. *University of Wyoming Bulletin (jointly published with USDA-NRCS and Montana State University)*. <https://www.wyoextension.org/agpubs/pubs/B-1359-poisonousplants-web.pdf>
  23. N. Dillinger<sup>‡</sup>, R. Wilbur<sup>‡</sup>, T. Righetti, **J.D. Scasta**. 2020. Wyoming prescribed burning regulations: Review of policy, guidelines, and case law for private lands. *University of Wyoming and Wyoming Prescribed Fire Council Bulletin*. <https://www.wyoextension.org/agpubs/pubs/B-1354-web.pdf>
  22. **J.D. Scasta**, C.E. Estep<sup>‡</sup>, T.T. Barrett<sup>‡</sup>, C. Gray<sup>‡</sup>, J. Lautenbach<sup>‡</sup>, L.A. Boggs-Lynch<sup>‡</sup>, C.W. Ott<sup>‡</sup>, J.L. Skovgard<sup>‡</sup>, R.C. Wilbur<sup>‡</sup>, and L. Hoffer. 2019. B-1351 Burning irrigation ditches. *University of Wyoming Bulletin*. <https://www.wyoextension.org/agpubs/pubs/B-1351.pdf>
  21. L. Connell<sup>‡</sup>, R. Wilbur<sup>‡</sup>, L. Porensky, and **J.D. Scasta**. 2019. B-1346 Prairie dog ecology and management in Wyoming. *University of Wyoming Bulletin*. <http://wyoextension.org/publications/html/B1346/>
  20. **Scasta, J.D.**, D. Mount, B. Hauptman, and T. Jorns<sup>‡</sup>. 2019. B-1343 Beef cow size: industry trends, economics, and implications for grazing Wyoming rangelands. *University of Wyoming Extension Bulletin*. [http://www.wyoextension.org/agpubs/pubs/B-1343\\_beef-cow-size\\_web.pdf](http://www.wyoextension.org/agpubs/pubs/B-1343_beef-cow-size_web.pdf)
  19. Marah, B.D. <sup>‡</sup>, and **J.D. Scasta**. 2019. Fire then and Now: A look at wildland fire in North America in the 21<sup>st</sup> century – Publication 2019-1. *Southern Rockies Fire Science Network*. Publication 2019-1. [https://wyoextension.org/wyprescribedfire/wp-content/uploads/2020/01/FireThenAndNow\\_final\\_singlepage.pdf](https://wyoextension.org/wyprescribedfire/wp-content/uploads/2020/01/FireThenAndNow_final_singlepage.pdf)
  18. Stam, B., **J.D. Scasta**, and E. Thacker. 2018. B-1320 Animal Unit Month (AUM) concepts and applications for grazing rangelands. *University of Wyoming Extension Bulletin*. <http://wyoextension.org/publications/html/B1320/>
  17. Weir, J.R., M.L. Russell, D. Cram, C.E. Baldwin, P. Bauman, and **J.D. Scasta**. 2018. E-1048 Wildfire: Preparing the ranch and farm. *Extension Fact Sheet jointly published by Oklahoma State University, South*

Dakota State University, Texas A&M University, Kansas State University, New Mexico State University, and University of Wyoming. <http://factsheets.okstate.edu/documents/e-1048-wildfire-preparing-the-ranch-and-farm/>

16. **Scasta, J.D.**, and J.R. Weir. 2018. GPE 2017-5 Season of burning and tallgrass prairie vegetation dynamics. 2018. *Great Plains Fire Science Exchange Brief*. <http://www.gpfirescience.org/uploads/annountspublis/pdfs/20181seasonofburning.pdf>
15. **Connell, L.**<sup>‡</sup>, L. Porensky, S. Greenler, S. Newton, D. Pellatz, and **J.D. Scasta**. 2018. B-1288.3 Common herbaceous plants of the Thunder Basin Grasslands. *University of Wyoming Extension Bulletin*. <http://www.wyoextension.org/publications/html/B1288-3/>
14. **Correll, L.L.**<sup>‡</sup>, **R.M. Burton**<sup>†</sup>, **J.D. Scasta**, and J.L. Beck. 2017. B-1295 Landowner guide to sage-grouse conservation in Wyoming: a practical guide for land owners and managers. *University of Wyoming Extension Bulletin*. <http://www.wyoextension.org/agpubs/pubs/B-1295.pdf>
13. **Duchardt, C.**<sup>‡</sup>, and **J.D. Scasta**. 2016. B-1288.2 Birds of Thunder Basin: Sagebrush specialists. *University of Wyoming Extension Bulletin*. <http://www.wyoextension.org/agpubs/pubs/B-1288-2.pdf>
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11. **Scasta, J.D.**, **T. Plechaty**<sup>‡</sup>, H. Hill, and S. Lake. 2016. B-1294 3-Step body condition scoring (BCS) guide for range cattle: Implications for grazing and reproduction. *University of Wyoming Extension Bulletin*. <http://www.wyoextension.org/agpubs/pubs/B-1294.pdf>
10. **Scasta, J.D.** 2015. B-1271 Wildland fire in Wyoming: patterns, influences, and effects. *University of Wyoming Extension Bulletin*. <http://www.wyoextension.org/agpubs/pubs/B-1271.pdf>
9. Smith, M., A. Garrelts, B. Sebade, W. Kelley, S. Schell, M. Smith, **J.D. Scasta**, R. Mealor, and B. Stam. 2015. B-1265 Rangeland Plants: Wyoming Tough. *University of Wyoming Extension Plant Book*, 170 p. <http://www.wyoextension.org/agpubs/pubs/B-1265.pdf>
8. **Scasta, J.D.** 2014. B-1260 Dietary composition and conflicts of livestock and wildlife on rangeland. *University of Wyoming Extension Bulletin*. <http://www.wyoextension.org/agpubs/pubs/B-1260.pdf>
7. Weir, J.R., **J.D. Scasta**, R. Stevens, and T.G. Bidwell. 2013. E-2893 Burn plan for prescribed burning. *Oklahoma Cooperative Extension Service Factsheet*. [http://www.forestry.ok.gov/Websites/forestry/images/NREM-2893\\_Burn\\_Plan\\_for\\_Rx\\_Fire.pdf](http://www.forestry.ok.gov/Websites/forestry/images/NREM-2893_Burn_Plan_for_Rx_Fire.pdf)
6. **Scasta, J.D.** 2013. GPE 2013-19 Application of patch-burn grazing for landowners. *Great Plains Fire Science Exchange Factsheet*. <https://climatechange.lta.org/wp-content/uploads/cct/2015/12/Patch-Burn-Grazing-for-Landowners.pdf>
5. **Scasta, J.D.** 2013. GPE 2013-20 Patch-burn grazing to manage fuels, ignition and wildfire spread. *Great Plains Fire Science Exchange Factsheet*. <https://secureservercdn.net/198.71.233.44/f2o.35b.myftpupload.com/wp-content/uploads/2019/09/PatchburngrazingtomanagefuelsignitionandwildfirespreadPBGManageFuelsIgnitionWildfireSpread.pdf?time=1578347541>
4. Weir, J.R., S.D. Fuhlendorf, D.M. Engle, T.G. Bidwell, D.C. Cummings, D. Elmore, R.F. Limb, B.W. Allred, **J.D. Scasta**, and S.L. Winter. 2013. Patch-burning: Integrating fire and grazing to promote heterogeneity. *Oklahoma Cooperative Extension Service Factsheet*. E-998. <http://factsheets.okstate.edu/wp-content/uploads/2017/04/E-998survey2013.pdf>
3. Allred, B.W., **J.D. Scasta**, and S.D. Fuhlendorf. 2012. Influence of fire on grazing distribution. eXtension Prescribed Fire Community of Practice invited article.
2. **Scasta, J.D.** 2012. Using fire to manage horn flies on cattle. eXtension Prescribed Fire Community of Practice

invited article.

1. **Scasta, J.D.**, B.W. Allred, and S.D. Fuhlendorf. 2012. Influence of fire on cattle forage quality. eXtension Prescribed Fire Community of Practice invited article.

#### TECHNOLOGY DEVELOPMENT – 10 Total

10. Wyoming Prescribed Fire Council (WY-PFC) website. 2019. Led the effort on behalf of the WY-PFC through cooperation with UW IT and Ann Tanaka; this also included logo development and website editing. <https://wyoextension.org/wyprescribedfire/>
9. FERAL Conference in New Zealand. Co-hosted by Massey University Political Ecology Research Centre (PERC) and Wageningen University Centre for Space, Place and Society (CSPS). 2018. Video of presentation – Wild (feral?) horses: socio-ecological perspectives from 3 nations. <https://www.youtube.com/watch?v=ud0qVyRGILM&t=32s>
8. Restoring the West Conference. 2018. Video of presentation – Towards a better understanding of the socio-ecological complexities of feral horses in the U.S. <https://www.youtube.com/watch?v=cr7eyB0-5Js&t=98s>
7. National Wild Horse and Burro Summit. 2017. Session 5 – Management Challenges and Opportunities: Spatial ecology of wild equids and the integration of GPS technology (my Ph.D. student J. Hennig presenting the results from our research in the Red Desert of Wyoming). [https://mpvideo.usu.edu/media/0\\_119ztp6u](https://mpvideo.usu.edu/media/0_119ztp6u)
6. National Wild Horse and Burro Summit. 2017. Session 3 – Science and Management: Science of management western rangelands: Framing the contemporary US wild horse and burro conflict at the nexus of society and ecology (J.D. Scasta presenting). [https://mpvideo.usu.edu/media/0\\_16257upw](https://mpvideo.usu.edu/media/0_16257upw)
5. Southern Rockies Fire Science Network videos. 2017. Chadron forestry and the three-legged stool: Part 4- Grazing. <https://www.youtube.com/watch?v=qtfURLCYAUo&list=PLCT5u82jYZ5zisjz1K9UU1RLlo-0WlXDC&index=4>
4. University of Wyoming Extension Sage-grouse Conservation Website. 2016. (MS student Leanne Correll lead). <http://www.wyoextension.org/sagegrouseconservation/about/>
3. University of Wyoming Extension Rangeland Monitoring for Sage-grouse conservation videos. 2016. *Rangeland monitoring - photo point transect* (L. Correll (MS student) lead; David Keto – Videography; J.D. Scasta organization and assistance with content and videoing). <https://youtu.be/GYnhU0e7NPM>
2. University of Wyoming Extension Rangeland Monitoring for Sage-grouse conservation videos. 2016. *Rangeland Monitoring - line point intercept* (L. Correll (MS student) lead; David Keto – Videography; J.D. Scasta organization and assistance with content and videoing). <https://youtu.be/TutdewgFvpo>
1. Prescribed Burning Handbook App (Web page based platform). 2014. Weir, J.R., D. Elmore, T.G. Bidwell, D.M. Engle, J.D. Carlson, S.D. Fuhlendorf, and **J.D. Scasta**. <http://factsheets.okstate.edu/e1010/>

#### DATA REPOSITORY CONTRIBUTIONS – 2 Total

- Beck, J.L., J.D. Hennig, and **J.D. Scasta**. 2022. Data from: Study "Pronghorn (*Antilocapra americana*), Wyoming/Colorado, USA". Movebank Data Repository. doi:10.5441/001/1.74pf3n2p
- Scasta, J.D.**, J.D. Hennig, and J.L. Beck. 2022. Data from: Study "Feral horse (*Equus ferus caballus*), Wyoming/Colorado, USA". Movebank Data Repository. doi:10.5441/001/1.4q2t4fn8

#### PROCEEDINGS AND REPORTS (undergraduate student<sup>†</sup>; graduate student<sup>‡</sup>) – 52 Total

52. USDA-NRCS Washington D.C. 2024. Principal Investigator Report for 240140A0001 "Assessing Effectiveness

of Big-Game Migration-Friendly Fences” (**J.D. Scasta**), 6 pages.

51. Bureau of Land Management. 2021. Final Project Report for ‘Wild horse spatial movement patterns across the public-private land matrix, rangeland habitat use, and interactions with wildlife and livestock: L16AC00264 (Adobe Town GPS collar project)’. (**J.D. Scasta**, J.L. Beck, and J.D. Hennig<sup>‡</sup>), 22 pages.
50. United States Department of Agriculture, Farm Service Agency, Crook County. 2021 *Forage grazing loss estimate* (**J.D. Scasta**)
49. Bureau of Indian Affairs. 2019. Final Project Report for grant/cooperative agreement number A17AC00019, *Enhanced ecological inventory of high elevation basins on the Wind River Indian Reservation*. (**J.D. Scasta**), 18 pages.
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#### BOOK REVIEWS

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#### EDITOR AND REVIEWER SERVICE FOR JOURNALS

Associate Editor for *Rangeland Ecology and Management* (1 Term: 2019-2021; handling ~ 12 manuscripts/year)

Steering Committee for *Rangelands* (2 Terms: 2016-2018; 2019-2021)

Peer Reviewer for the following journals:

Acta Oecologia (1 – 2015)  
 African Journal of Agricultural Research (1 – 2012)  
 African Zoology (1 – 2018)  
 Agriculture, Ecosystems and Environment (2 – 2023)  
 Agricultural Systems (1 – 2019)  
 Animal Conservation (1 – 2021)  
 Applied Animal Science (1 – 2020; 1 – 2022; 1 – 2023)  
 Applied Vegetation Science (1 – 2015, 1 – 2016)  
 Arid Land Research and Management (1 – 2018)  
 Biological Conservation (1 – 2020)  
 Biological Invasions (1 – 2018)  
 Climate Risk Management (1 – 2017)  
 EcoHealth (1 – 2020)  
 Ecology and Evolution (1 – 2015)  
 Ecological Applications (1 – 2015; 1 – 2023)  
 Ecological Engineering (2 – 2014)  
 Ecological Indicators (1 – 2023)  
 Ecosphere (1 – 2023)  
 Ethnobiology Letters (1 – 2020)  
 Fire Ecology (1 – 2012, Book Review)  
 Forests (1 – 2017)  
 Forest Ecology and Management (1 – 2019)  
 Frontiers in Plant Science (1 – 2016)  
 Frontiers in Conservation Science (1 – 2021)  
 Global Ecology and Conservation (1 – 2021)  
 Grass & Forage Science (1 – 2023)  
 Human Dimensions of Wildlife (1 – 2019)  
 Human-Wildlife Interactions (1 – 2019; 2 – 2021)  
 Journal of Animal Ecology (1 – 2023)  
 Journal of Applied Ecology (1 – 2019)  
 Journal of Arid Environments (1 – 2020)  
 Journal of Arid Land (1 – 2017)  
 Journal of Environmental Management (2 – 2020)



Journal of Industrial Information Integration (1 – 2023)  
 Journal of Vegetation Science (1 – 2017; 1 – 2018)  
 Journal of Zoology (1 – 2017)  
 Journal of Wildlife Diseases (1 – 2020)  
 Koedoe (African Protected Area Conservation and Science) (1 – 2015)  
 International Journal of Wildland Fire (1 – 2013, 1 - 2015)  
 Land Degradation & Development (1 – 2017)  
 Livestock Science (1 – 2021; 1 – 2022)  
 Natural Areas Journal (1 – 2013, Book Review)  
 Nature Climate Change (1 – 2017)  
 Natural Resource Modeling (1 – 2015)  
 Pest Management Science (1 – 2015)  
 Plant Ecology (1 – 2015)  
 Plant, Soil and Environment (1 – 2023)  
 PLOS ONE (2 – 2016)  
 Proceedings of the Royal Society B (1 – 2021)  
 Rangeland Ecology and Management (3 – 2016, 5 – 2018, 2 – 2019, 3 – 2020, 3 – 2021, 4 – 2022, 2 – 2023)  
 Rangelands (1 – 2014, 8 – 2016, 2 – 2017, 1 – 2018, 1 – 2019, 1 – 2020)  
 Restoration Ecology (1 – 2015, 3 – 2016, 1 – 2020)  
 Sheep and Goat Research Journal (1 – 2020)  
 Small Ruminant Research (1 – 2020)  
 Society & Natural Resources (1 – 2021)  
 Spanish Journal of Agricultural Research (1 – 2020)  
 The Prairie Naturalist (1 – 2014)  
 The Rangeland Journal (1 – 2018, 1 – 2020)  
 Veterinary Clinical Pathology (1 – 2023)  
 Veterinary Parasitology: Regional Studies and Reports (1 – 2019)  
 Wildlife Biology (1 – 2020)  
 Wildlife Society Bulletin (1 – 2018; 1 – 2021)

#### *TENURE AND PROMOTION REVIEWER SERVICE FOR UNIVERSITIES*

Oklahoma State University, Natural Resource Ecology and Management Department (2021)  
 University of Arizona, Tribal Extension Programs (2021)  
 University of California – Davis (2023)  
 University of Idaho, Department of Fish and Wildlife Sciences (2022)  
 Utah State University, Wildland Resources Department (2021)

#### *CONTENT REVIEWER SERVICE FOR AGENCIES/UNIVERSITIES/ELECTED OFFICIALS*

American Sheep Industry Association – Guidebook for Targeted Grazing Contractors (2024)  
 British Columbia, Canada – NEBC Fire Council Prescribed Fire Expert Review Team (2023)  
 Bureau of Land Management (BLM DOI), Rawlins FO – Outcome based grazing EA for WY project (2019)  
 City of Laramie Ranch Consultation (Monolith Ranch and Bass Ranch) – Grazing and hay planning (2023)  
 Czech Science Foundation – Proposal Reviewer for P505 – Animal and Plant Ecology (20-29481S; 2019)  
 Joint Fire Science Program (JFSP DOI) – Proposal Reviewer for Task 1 Effectiveness of Fuel Breaks (2019)  
 Noble Research Institute – Advisory Committee (1 – 2019)  
 Northern Plains Regional Climate Hub (1 – 2016)  
 The Nature Conservancy Interpretative Panel (1 – 2015)  
 University of Denver – Grazing Lease (1 – 2016)  
 University of Nebraska – Lincoln (1 – 2016; Common Grasses of Nebraska Manual)  
 University of Nevada – Reno (1 – 2018; Nevada Rangeland Monitoring Handbook, 3<sup>rd</sup> Edition)  
 University of Nevada – Reno, AES (1 – 2020; Hatch Research Proposal)  
 University of Pittsburgh – Grazing Capacity of the Allen L. Cook Spring Creek Preserve (1 – 2018)  
 University of Wyoming – Agricultural Experiment Station (AES) Field Days Bulletin (2 – 2015)  
 University of Wyoming – Extension Bulletin (1 – 2015; 1 – 2020)  
 University of Wyoming – Agricultural Experiment Station (AES) Global Perspectives Grant (4 – 2019)  
 USDA Forest Service, Bridger-Teton NF. Rangeland Condition and Tall Forb Community Assessment (2020)

USDA Forest Service, Forest Inventory and Analysis. National Woodland Owner Survey (NWOS) (2019)  
 USDA National Institute of Food Agriculture (NIFA) – COVID-19 CARE 5 Grants (2020)  
 USDA National Institute of Food Agriculture (NIFA) – SBIR8.1 Forests & Related Resources 8 (2021; 2023)  
 USDA National Institute of Food Agriculture (NIFA) – A1721 Climate Hubs Partnership (2021; 2023)  
 USDA NRCS NM Soil Survey Office and Jornada Experimental Range Technical Document (1 – 2016)  
 Wild Horse Ranch (Centennial, WY) – Horse and rangeland consultation with BLM, FS, etc. (2020-2024)  
 WY Department of Agriculture – Rangeland Health Assessment Program (RHAP) Review Team (2018-2021)  
 WY House Dist. 44 Representative (Mr. James Byrd) – Review of City of Cheyenne grazing allotment (2018)  
 WY Stock Growers Association (Mr. Jim Magagna) – Review funding request for BTNF ESD project (2019)

**ABSTRACTS (undergraduate student<sup>‡</sup>; graduate student<sup>‡</sup>) – 126 Total**

126. Versluijs, E.<sup>‡</sup>, B. Zimmermann, M. Tofastrud, A. Hessle, **J.D. Scasta**, R. Serrouya, P. Wabakken, A.L. Evans. 2024. *Behavioural dependent habitat selection of free-ranging cattle in the boreal forest*. Association for the Study of Animal Behaviour, University of Exeter, Exeter, England.
125. Beck, J.L., M.C. Milligan, K.T. Smith, P.A. Street, A.C. Pratt, C.P. Kirol, C.P. Wanner, J.D. Hennig, J.B. Denkins, **J.D. Scasta**, P.S. Coates. 2024. *Free-roaming horses exceeding appropriate management levels affect multiple vital rates in greater sage-grouse*. Wyoming Wildlife Society Annual Conference, Cody, WY.
124. Nimlos, N.<sup>‡</sup>, **J.D. Scasta**. 2024. *Landowners' willingness to participate in grassland carbon markets*. 2024. Pathways Europe 2024: Human Dimensions of Wildlife Conference, Palacio de Congresos de Córdoba, Córdoba, Spain.
123. Norton, A.<sup>‡</sup>, T. Gergini, **J.D. Scasta**. 2024. *Songbird community response to grazing and infrastructure on a sagebrush steppe ranch*. 77<sup>th</sup> Society for Range Management 77<sup>th</sup> Annual Meeting. Sparks, NV.
122. Milligan, M.C., J.L. Beck, K.T. Smith, P.A. Street, A.C. Pratt, C.P. Kirol, C.P. Wanner, J.D. Hennig, J.B. Denkins, **J.D. Scasta**, P.S. Coates. 2024. *Free-roaming horses exceeding appropriate management levels affect multiple vital rates in greater sage-grouse*. Society for Range Management 77<sup>th</sup> Annual Meeting. Sparks, NV.
121. **Scasta, J.D.**, N. Nimlos<sup>‡</sup>, J., Goodwin. 2024. *Project Overview: Metrics, Management, and Monitoring*. Special Symposium. Society for Range Management 77<sup>th</sup> Annual Meeting. Sparks, NV.
120. Hennig, J.D., **J.D. Scasta**, A.C. Pratt, C.P. Wanner, J.L. Beck. 2024. *Habitat selection and space use overlap between feral horses, pronghorn, and greater sage-grouse in cold arid steppe*. Special Wild Horse Symposium. Society for Range Management 77<sup>th</sup> Annual Meeting. Sparks, NV.
119. **Scasta, J.D.**, J.D. Hennig, C.M. Calkins. 2024. *Feral horse cause-specific mortality relative to mustering (gathering) and individual demographic attributes in the USA*. Special Wild Horse Symposium, Society for Range Management 77<sup>th</sup> Annual Meeting. Sparks, NV.
118. Buchanan, C.E.<sup>‡</sup>, S.J. Galla, J.S. Forbey, **J.D. Scasta**, J.L. Beck. 2024. *Seasonal and geographic differences in diets of feral horses among BLM Herd Management Areas*. Society for Range Management 77<sup>th</sup> Annual Meeting. Sparks, NV.
117. Norton, A.<sup>‡</sup>, T. Gergini, S. Hook, J. Goodwin, **J.D. Scasta**. 2024. *Foraging behavior of beef cattle in an adaptive multi-paddock grazing system on a sagebrush steppe ranch in Wyoming*. Society for Range Management 77<sup>th</sup> Annual Meeting. Sparks, NV.
116. Lieurance, W.<sup>‡</sup>, K. Hoopes, **J.D. Scasta**, D. Stoner, A. Hernandez, T. Stringham, J. Beck, E. Thacker. 2024. *Quantifying wild horse body condition: A methodological investigation using game cameras and observer bias corrections*. Society for Range Management 77<sup>th</sup> Annual Meeting. Sparks, NV.
115. Kersh, A.<sup>‡</sup>, **J.D. Scasta**, J. Derner, H. Fraley, W. Stewart. 2024. *Sheep foraging behavior and diet selection in the context of Geyer's larkspur (Delphinium geyeri): Insights from fDNA barcoding*. 2024. Sheep larkspur diets.

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114. **Scasta, J.D.**, R. Benjmain, B. Stam. 2024. *Refinement of the Robel pole for rangeland grazing applications: Insights from diverse applications*. Society for Range Management 77<sup>th</sup> Annual Meeting. Sparks, NV.
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  112. Versluijs, E.<sup>‡</sup>, B. Zimmermann, M. Tofastrud, A. Hessle, **J.D. Scasta**, R. Serrouya, P. Wabakken, G. Adamski, A.L. Evans. 2023. *Free-ranging cattle in the boreal forest: is their behavior affected by wolf presence?*. International Union of Game Biologists. Warsaw, Poland.
  111. Becker, J.A., J.L. Beck, L.E. Hall, J.D. Hennig, M.J. Kauffman, H. Sawyer, **J.D. Scasta**, J.A. Merkle. 2023. *Spatiotemporal variation in habitat partially explains sub-annual movement patterns in a large ungulate*. The Wildlife Society National Conference. Louisville, KY.
  110. Wade, N., L. Vermeire, **J.D. Scasta**. 2023. *Prescribed fire seasonality effects on black greasewood (*Sarcobatus vermiculatus*) survival and structure in the northern Great Plains*. Ecological Society for America National Conference. Portland, OR.
  109. Hennig, J., J. Beck, **J.D. Scasta**. 2023. *Water dependency mediates movement syndrome differences between ruminants and hindgut fermenters in arid steppe*. Ecological Society for America National Conference. Portland, OR.
  108. Hennig, J., C. Duchardt, S. King, S. Esmaeili, **J.D. Scasta**. 2023. *The current state of U.S. feral equid management*. Human Dimensions of Wildlife Conference and Training. Fort Collins, CO.
  107. Beck, J.L., K.T. Smith, C.P. Wanner, A.C. Pratt, J.D. Hennig, **J.D. Scasta**, P.A. Street. 2023. *Increasing feral horses affect greater sage-grouse nest survival*. Human Dimensions of Wildlife Conference and Training. Fort Collins, CO.
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  105. **Scasta, J.D.**, E. Thacker, J.D. Hennig, K. Hoopes. 2023. *Systematic review of wild equid mortalities caused by dehydration*. Human Dimensions of Wildlife Conference and Training. Fort Collins, CO.
  104. J. Hennig, C. Duchardt, S. King, S. Esmaeili, and **J.D. Scasta**. 2023. *The current state of US feral equid management*. Pathways Conference, Fort Collins, CO.
  103. Versluijs, E.<sup>‡</sup>, B. Zimmermann, M. Tofastrud, A. Hessle, A. Evans, G. Adamski, **J.D. Scasta**, R. Serrouya, and P. Wabakken. 2023. *Towards a shared forest: Studying the compatibility of free-ranging cattle and carnivores in boreal forests*. Wolves Across Borders: Conference on Wolf Ecology and Management. Stockholm, Sweden.
  102. J.L. Beck, K.T. Smith, C.P. Wanner<sup>‡</sup>, A.C. Pratt, J.D. Hennig<sup>‡</sup>, **J.D. Scasta**, and P.A. Street. 2023. *Increasing feral horses adversely affect greater sage-grouse nest survival in central Wyoming*. Society for Range Management 76<sup>th</sup> Annual Meeting (Boise, ID).
  101. Porensky, L., D. Augustine, and **J.D. Scasta**. 2023. *Ecosystem resilience to prairie dog disturbance offers opportunities for rangeland management*. Society for Range Management 76<sup>th</sup> Annual Meeting (Boise, ID).
  100. Buchanan, C.E.<sup>‡</sup>, S.J. Galla, J.S. Forbey, **J.D. Scasta**, and J.L. Beck. 2023. *Using genetic sequencing of fecal samples to understand dietary and microbial differences in feral horses among BLM herd management areas*. Society for Range Management 76<sup>th</sup> Annual Meeting (Boise, ID).

99. Reynolds, A.Q.<sup>‡</sup>, J.D. Derner, L.A. Kuehn, **J.D. Scasta**. 2023. *Does origin of yearling steers influence weight gain when grazing on shortgrass steppe?* Society for Range Management 76<sup>th</sup> Annual Meeting (Boise, ID).
98. **Scasta, J.D.**, H. Fraley<sup>‡</sup>, A. Kersh<sup>‡</sup>, W. Stewart, J. Derner. 2023. *Sheep grazing for control of Geyer's larkspur (Delphinium geyeri)*. Toxic Plant Symposium, Society for Range Management 76<sup>th</sup> Annual Meeting (Boise, ID).
97. **Scasta, J.D.** 2023. *Not just little cows: What we know about rangeland sheep diets*. Sheep Symposium, Society for Range Management 76<sup>th</sup> Annual Meeting (Boise, ID).
96. Shoenacker, K., S.R.B. King, J.D. Hennig<sup>‡</sup>, J.L. Beck, and **J.D. Scasta**. 2022. *Effects of radio collars on free-ranging feral equids*. The Wildlife Society Annual Meeting (Spokane, WA).
95. Buchanan, C.<sup>‡</sup>, J.S. Forbey, **J.D. Scasta**, and J.L. Beck. 2022. *Applying fecal particle size analysis to evaluate forage digestibility in free-roaming horses*. Society for Range Management 75<sup>th</sup> Annual Meeting (Albuquerque, NM).
94. Reynolds, A.Q.<sup>‡</sup>, J.D. Derner, L.A.Kuehn, **J.D. Scasta**, M. Enns, S.I. Paisley, M.V. Boggess, and D. Augustine. 2022. *Does origin of yearling steers influence weight gain when grazing on shortgrass steppe?* Society for Range Management 75<sup>th</sup> Annual Meeting (Albuquerque, NM).
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92. Beck, J.L., P. Street, J.D. Hennig<sup>‡</sup>, A.C. Pratt, **J.D. Scasta**, C. Powell<sup>‡</sup>, and K.T. Smith. 2021. *Feral horse impacts on greater sage-grouse nest site selection and success*. 32nd Western Agencies Sage and Columbian Sharp-tailed Grouse Symposium, Virtual Conference hosted by Oregon Department of Fish and Wildlife, Salem, Oregon, USA.
91. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, A.C. Pratt, C. Powell<sup>‡</sup>, J.L. Beck. 2021. *Resource selection and occurrence overlap between feral horses, pronghorn, and greater sage-grouse*. Western Association of Fish and Wildlife Agencies - Sage Grouse Workshop.
90. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, J.L. Beck. 2021. *Temporal overlap among feral horses, cattle, and native ungulates as water sources*. The Wildlife Society.
89. Frey, N., L. Singletary, **J.D. Scasta**. 2021. *U.S. public opinion of free-roaming horse management in the western U.S.* The Wildlife Society.
88. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, J.L. Beck. 2020. *Response of sagebrush habitat characteristics to feral horse grazing*. Society for Range Management 73rd Annual Meeting. Denver, CO. (POSTER)
87. Wilbur, R.<sup>‡</sup>, **J.D. Scasta**. 2020. *Sparks at the campfire: Participant aspirations and motivations towards forming the Wyoming Prescribed Fire Council*. Society for Range Management 73rd Annual Meeting. Denver, CO. (POSTER)
86. Estep, C.E.<sup>‡</sup>, **J.D. Scasta**, J.P. Ott, T.W. Ocheltree, A.J. Symstad, C. Grey, B.E. Dickerson, J. Reardon. 2020. *Prescribed fall fire decreases annual brome and sagebrush abundance in the Thunder Basin ecoregion in northeastern Wyoming*. Society for Range Management 73rd Annual Meeting. Denver, CO. (POSTER)
85. Julian, A.A.M.<sup>‡</sup>, **J.D. Scasta**, B.M. Sebade, B.R. Stam, W.C. Stewart. 2019. *Trace mineral concentrations in common forage and shrub species on sheep winter range throughout Wyoming: Preliminary results*. American Lamb Board Lamb Summit. Fort Collins, CO.
84. Julian, A.A.M.<sup>‡</sup>, **J.D. Scasta**, B.M. Sebade, B.R. Stam, W.C. Stewart. 2019. *Quantification of trace mineral concentrations in common forage and shrub species on sheep winter range throughout Wyoming*. Mountain States Cooperative Meeting. Buffalo, WY.

83. **Scasta, J.D.** 2019. *Free-roaming equids and human emotions: merging ecology and psychology*. The Wildlife Society & American Fisheries Society Joint Annual Conference. Reno, NV.
82. Beck, J.L., **J.D. Hennig<sup>‡</sup>**, **J.D. Scasta**. 2019. Managing free-roaming equids at a landscape scale. The Wildlife Society & American Fisheries Society Joint Annual Conference. Reno, NV.
81. **J.D. Hennig<sup>‡</sup>**, **J.D. Scasta**, Beck, J.L. 2019. *Do the movements of an introduced species track with aridland resource dynamics?* International Association for Landscape Ecology. Fort Collins, CO.
80. Schoenecker, K.A., S.R.B. King, **J.D. Hennig<sup>‡</sup>**, J.L. Beck, and **J.D. Scasta**. 2019. *Effect of radio collars and tail transmitters on feral equids in the USA*. International Wild Equid Conference. Prague, Czech Republic.
79. **Esmaeli, S. <sup>‡</sup>**, B. Abrahms, S.E. Albeke, J.L. Beck, S. Chamaille-Jammes, I.R. Fischhoff, A.T. Ford, M.R. Hemami, **J.D. Hennig<sup>‡</sup>**, P. Kaczensky, D. Rubenstein, **J.D. Scasta**, S.R. Sundaresan, and J.R. Goheen. 2019. *Does the Forage Maturation Hypothesis predict seasonal movements of wild equids*. International Wild Equid Conference. Prague, Czech Republic.
78. Beck, J.L., **J.D. Scasta**, and **C.J. Angwin<sup>†</sup>**. 2019. *Meta-analysis of diet composition and potential conflict of wild horses with livestock and wild ungulates on western rangelands of North America*. International Wild Equid Conference. Prague, Czech Republic.
77. Beck, J.L., **J.D. Hennig<sup>‡</sup>**, **J.D. Scasta**, K.A. Schoenecker, and S.R.B. King. 2019. *Safety and application of telemetry collars on wild and free-roaming equids: A global systematic review*. International Wild Equid Conference. Prague, Czech Republic.
76. **Hennig, J.D. <sup>‡</sup>**, **J.D. Scasta**, J.L. Beck. 2019. *Response of sagebrush habitat characteristics to feral horse grazing*. International Wild Equid Conference. Prague, Czech Republic.
75. **Hennig, J.D. <sup>‡</sup>**, **J.D. Scasta**, J.L. Beck. 2019. *Movement syndromes of feral horses inhabiting arid steppe in western North America*. International Wild Equid Conference. Prague, Czech Republic.
74. **Scasta, J.D.**, **J.D. Hennig<sup>‡</sup>**, J.L. Beck, S.E.R. Leverkus, S.D. Fuhlendorf, M. Geertsema, B.W. Allred, M. Gregory, A.R. Bevington, and D.M. Engle. 2019. *North American horse spatial ecology: GPS tracking insights from desert to boreal*. International Wild Equid Conference. Prague, Czech Republic.
73. **Scasta, J.D.** 2019. *Equids and humans: a historical examination of global psycho-ecology influencing emotions*. International Wild Equid Conference. Prague, Czech Republic.
72. Stam, B., **J.D. Scasta**, and **J. Windh<sup>‡</sup>**. 2020. *Predator-Livestock interactions in Wyoming: Rancher survey insights about non-lethal losses and mitigation strategies (to be submitted)*. 2020 Society for Range Management 73rd Annual Meeting. Denver, CO.
71. **Wilbur, R. <sup>‡</sup>** and **J.D. Scasta**. *Motivations for a Wyoming Prescribed Fire Council (title tentative)*. 2019. 8<sup>th</sup> Association for Fire Ecology – International Fire Congress. Tucson, AZ.
70. **Esmaeli, S. <sup>‡</sup>**, B. Abrahms, S.E. Albeke, J.L. Beck, S. Chamaille-Jammes, I.R. Fischhoff, A.T. Ford, M.R. Hemami, **J.D. Hennig<sup>‡</sup>**, P. Kaczensky, D. Rubenstein, **J.D. Scasta**, S.R. Sundaresan, and J.R. Goheen. 2019. *Does the Forage Maturation Hypothesis predict seasonal movements of wild equids*. American Society of Mammalogists. Washington, D.C.
69. **Sherill, K. <sup>‡</sup>**, J. Talley, B. Noden, L. Goodman, and **J.D. Scasta**. 2019. *The influence of eastern red cedar on Tabanidae populations in Oklahoma*. 67<sup>th</sup> Entomological Society of America – Southwestern Branch Conference. Tulsa, OK.
68. **Gettinger, A. <sup>†</sup>**, **M. Edwards<sup>†</sup>**, and **J.D. Scasta**. 2018. *Evaluation of soil and vegetation responses to exponentially increasing truck and ATV traffic on a western Great Plains rangeland site in Wyoming, USA*. 2019 Society for Range Management 72nd Annual Meeting. Minneapolis, MN.

67. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, and J.L. Beck. 2019. *Using step-selection functions to understand free-roaming horse selection for dynamic resources*. 2019 Society for Range Management 72nd Annual Meeting. Minneapolis, MN.
66. Reynolds, A.Q.<sup>‡</sup>, J.D. Derner, T.R. Jorns, D.J. Augustine, and **J.D. Scasta**. 2018. Ecological sites: what do they mean for livestock production? 2019 Society for Range Management 72nd Annual Meeting. Minneapolis, MN.
65. **Scasta, J.D.** 2018. *Long-term Wyoming, USA precipitation-biomass relationships and cattle gains as triggers for drought decision making*. 2019 Society for Range Management 72nd Annual Meeting. Minneapolis, MN.
64. **Scasta, J.D.**, G.E. Overbeck, F.F. Furquim<sup>‡</sup>, I.I. Boldrini, and J.R. Weir. 2018. *Botanical comparison of mesic grasslands in North America and Brazil: Implications of fire dependency and rangeland function?*. 2019 Society for Range Management 72nd Annual Meeting. Minneapolis, MN.
63. Duchardt, C.J.<sup>‡</sup>, J.L. Beck, D.J. Augustine, L. Porensky, D. Pellatz, L.C. Connell<sup>‡</sup>, and **J.D. Scasta**. 2018. *How many prairie dogs are too many? One bird's perspective*. 2019 Society for Range Management 72nd Annual Meeting. Minneapolis, MN.
62. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, and J.L. Beck. 2018. Resource selection overlap among free-roaming horses, pronghorn, and greater sage-grouse. Wyoming Section of The Wildlife Society - Annual Meeting. Laramie, WY.
61. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, and J.L. Beck. 2018. *Investigations into spatial ecology and rangeland impacts of wild horses in Wyoming's Red Desert*. Great Plains Grasslands Summit. Denver, CO.
60. **Scasta, J.D.**, Hennig, J.D.<sup>‡</sup>, and J.L. Beck. 2018. *Understanding the wild horse issue in the western US using insights from mares equipped with GPS transmitters in a high-elevation desert*. 7th National Grazing Lands Conference – Reno, NV.
59. Adams, M., and **J.D. Scasta**. 2018. *Wild (feral?) horses*. Feral Conference – New Zealand, Co-hosted by Massey University Political Ecology Research Centre (PERC) and Wageningen University Centre for Space, Place and Society (CSPS) (carbon neutral conference hosted entirely online).
58. Marah, B.D.<sup>‡</sup>, and **J.D. Scasta**. 2018. *Relating burn severity and short-term ecological effects of wildfires in high-elevation lodgepole pine (Pinus contorta) and subalpine fir (Abies lasiocarpa) mixed forests*. Fire Continuum Conference. Missoula, MT.
57. **Scasta, J.D.**, L. Connell<sup>‡</sup>, L. Poresnky. 2018. *Vegetation structure and shrub dynamics relative to fire, prairie dogs, and large ungulates in a hierarchical exclusion experiment in northeast Wyoming, USA*. International Association of Vegetation Scientists – Annual Meeting. Bozeman, MT.
56. Furquim, F.F.<sup>‡</sup>, **J.D. Scasta**, G.E. Overbeck. 2018. *Ecotourism and botanical conservation: a case study of regionally endemic cushion plants in exposed calcareous outcroppings in Park County, Wyoming, USA*. International Association of Vegetation Scientists – Annual Meeting. Bozeman, MT.
55. Leverkus, S., **J.D. Scasta**, R. Concepcion, M. Lavalley, K. White. 2018. *Shifting paradigms through shifting mosaics: The Phoenix Program - an evolution of the Peace-Liard prescribed fire program*. Canadian Section of The Wildlife Society - Annual Meeting. Winnipeg, Canada.
54. Friday, C.<sup>‡</sup>, and **J.D. Scasta**. 2017. *Linking native American culture with the rangeland resource on the Wind River Reservation of Wyoming*. Society for Range Management 71st Annual Meeting. Sparks, NV.
53. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, and J.L. Beck. 2017. *Initial investigations into the movement patterns and rangeland impacts of wild horses in Wyoming's Red Desert*. Society for Range Management 71st Annual Meeting. Sparks, NV.

52. Gergeni, T.<sup>‡</sup>, and **J.D. Scasta**. 2017. *Ranch-scale evaluation of the relationship between soil health, forage quality/quantity, and multi-decadal grazing capacity in a high-elevation rangeland*. Society for Range Management 71st Annual Meeting. Sparks, NV.
51. Plechaty, T.<sup>‡</sup>, J. Derner, and **J.D. Scasta**. 2017. *How does pulse grazing influence within-and between-grazing season dietary quality of cattle in shortgrass steppe?*. Society for Range Management 71st Annual Meeting. Sparks, NV.
50. Windh, J.L.<sup>‡</sup>, **J.D. Scasta**, and B. Stam. 2017. *Emerging themes in livestock-predator interactions: a social analysis of predators in Wyoming*. Society for Range Management 71st Annual Meeting. Sparks, NV.
49. **Scasta, J.D.**, T. Plechaty<sup>‡</sup>, J. Derner, S. Lake, D. Augustin, J.L. Windh<sup>‡</sup>, and T.L. Smith. 2017. *Confined cattle feeding trial to validate fecal DNA metabarcoding to inform rangeland free-roaming diet applications*. Society for Range Management 71st Annual Meeting. Sparks, NV.
48. Marah, B.<sup>‡</sup>, and **J.D. Scasta**. 2017. *Regulating burn severity with ecological effects at higher elevations within the Beaver Creek and Broadway wildfires*. Society for Range Management 71<sup>st</sup> Annual Meeting. Sparks, NV.
47. Connell, L.C.<sup>‡</sup>, L. Porensky, and **J.D. Scasta**. 2017. *Influence of black-tailed prairie dog herbivory on rangeland forage quality and quantity*. Front Range Student Ecology Symposium. Fort Collins, CO.
46. Marah, B.<sup>‡</sup> and **J.D. Scasta**. 2017. *Understanding and predicting consequences of fires across Colorado and Wyoming and two National Forests*. Front Range Student Ecology Symposium. Fort Collins, CO.
45. Connell, L.C.<sup>‡</sup>, L. Porensky, and **J.D. Scasta**. 2016. *Influence of black-tailed prairie dog herbivory on rangeland forage quality and quantity*. Society for Range Management 70th Annual Meeting. St. George, UT.
44. Marah, B.<sup>‡</sup> and **J.D. Scasta**. 2016. *Understanding and predicting consequences of fires across Colorado and Wyoming and two national forests*. Special Session – Southern Rockies Fire Science Network, Society for Range Management 70th Annual Meeting. St. George, UT.
43. **Scasta, J.D.** 2016. *Wildfire and prescribed fire function in Wyoming: big game, vegetation, and social responses*. Special Session – Southern Rockies Fire Science Network, Society for Range Management 70th Annual Meeting. St. George, UT.
42. Correll, L.<sup>‡</sup> and **J.D. Scasta**. 2016. *Candidate Conservation Agreement with Assurances – Proactive solutions for landowners and Endangered Species Act (ESA) candidate species*. Society for Range Management 70th Annual Meeting. St. George, UT.
41. Windh, J.L.<sup>†</sup> and **J.D. Scasta**. 2016. *Visual obstruction and biomass heterogeneity related to timing of sampling and exotic/native dominance of vegetation*. Society for Range Management 70th Annual Meeting. St. George, UT.
40. White, J.<sup>†</sup>, L.C. Connell<sup>‡</sup>, **J.D. Scasta**, and L. Porensky. 2016. *Who is driving vegetation structure patterns in a grassland-sagebrush ecotone? Cattle, prairie dogs, or fire?*. Society for Range Management 70th Annual Meeting. St. George, UT.
39. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, and J.L. Beck. 2016. *Safety and use of GPS collars on free-roaming equids – a review*. Society for Range Management 70th Annual Meeting. St. George, UT.
38. Plechaty, T.<sup>‡</sup>, **J.D. Scasta**, J. Derner, and D. Augustine. 2016. *Novel technology for measuring cattle behavior on rangelands: preliminary data from a grazing management study*. Society for Range Management 70th Annual Meeting. St. George, UT.
37. **Scasta, J.D.** 2016. *Socio-ecology and typology of dichotomous groups in Wyoming, USA with implications for agriculture and conservation*. Society for Range Management 70th Annual Meeting. St. George, UT.

36. Connell, L.C.<sup>‡</sup>, **J.D. Scasta**, and L.M. Porensky. 2016. *Black-tailed prairie dog response to the conspecific cues from a novel source*. Wyoming Chapter of the Wildlife Society and Wyoming Section of the Society for Range Meeting Joint Annual Conference. Cody, WY.
35. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, and J.L. Beck. 2016. *A global systematic review of safety and application of GPS collars on free-roaming equids*. Wyoming Chapter of the Wildlife Society and Wyoming Section of the Society for Range Meeting Joint Annual Conference. Cody, WY.
34. Plechaty, T.<sup>‡</sup>, **J.D. Scasta**, and J. Derner. 2016. *Does adaptive grazing management influence dietary quality of yearlings during the grazing season on western Great Plains rangelands?*. Joint Annual Meeting of American Society of Animal Science and American Dairy Science Association. Salt Lake City, UT. pp. 15.
33. Plechaty, T.<sup>‡</sup>, **J.D. Scasta**, and J. Derner. 2016. *Plant-cattle ecological interactions relative to grazing treatments in WY and CO*. Front Range Student Ecology Symposium. Fort Collins, CO.
32. Connell, L.C.<sup>‡</sup>, **J.D. Scasta**, and L. Porensky. 2016. *Interactive effects of herbivory and disturbance on plant communities in Thunder Basin National Grassland, Wyoming*. Front Range Student Ecology Symposium. Fort Collins, CO.
31. **Scasta, J.D.**, and G. Whipple. 2016. *Evolving deployment of Extension resources for rangelands in Wyoming: moving from county generalist to regional specialist*. X International Rangeland Congress. Saskatoon, Saskatchewan, Canada.
30. **Scasta, J.D.** 2016. *Multi-decadal cow size changes and rangeland grazing: a cryptic trend altering plant-animal interaction ecology and impacts for grazing decisions*. X International Rangeland Congress. Saskatoon, Saskatchewan, Canada.
29. **Scasta, J.D.** 2015. *Can grazing mediate fire behavior, scorch, and mortality of Ponderosa pine in Wyoming?*. Joint Meeting of Wyoming Section of the Society for Range Management, Wyoming Association of Conservation Districts, and Wyoming Weed and Pest Council. Laramie, WY.
28. Beck, J.L., **J.D. Scasta**, C.J. Angwin<sup>†</sup>. 2015. *Meta-analysis of wild horse diet composition and conflict with livestock and wild ungulates on western rangelands of North America*. Joint WYTWS and WLCI Conference. Lander, WY.
27. Windh, J.L.<sup>†</sup>, **J.D. Scasta**, T. Smith, and B. Baumgartner. 2015. *Drought consequences for cow-calf production in Wyoming: 2011-2014*. Society for Range Management 69<sup>th</sup> Annual Meeting. Corpus Christi, TX.
26. **Scasta, J.D.**, L. Varelas, and T. Smith. 2015. *Cow-size and herd efficiency relative to weather variability on Wyoming rangeland*. Society for Range Management 69<sup>th</sup> Annual Meeting. Corpus Christi, TX.
25. **Scasta, J.D.** 2015. *Fire effects on parasites of livestock and wildlife*. 6<sup>th</sup> International Fire Ecology and Management Congress. San Antonio, TX.
24. **Scasta, J.D.**, D.M. Engle, R.L. McCulley, K. Jokela, and D.M. Debsinki. 2015. *Influence of fire, grazing and drought on cattle herbivory, endophyte infection, and alkaloid concentration of tall fescue invaded grasslands*. America's Grassland Conference. Fort Collins, CO.
23. Talley, J.L., **J.D. Scasta**, J. Payne, T. Dubie, C. Richards, and M. Rolf. 2015. *Cross-disciplinary dialog between animal scientists, rangeland ecologists and veterinary entomologists leads to novel control practices of external parasites in beef systems*. Entomological Society of America. Minneapolis, MN.
22. **Scasta, J.D.**, and J.L. Beck. 2014. *Quantitative review of wild horse dietary conflicts with livestock and wildlife on western rangelands*. Society for Range Management 68th Annual Meeting. Sacramento, CA.
21. **Scasta, J.D.**, 2014. *Fire effects on livestock and wildlife: strategies for capturing the positive and mitigating the negative* (Invited). Society for Range Management 68th Annual Meeting. Sacramento, CA.



20. **Scasta, J.D.**, C. Duchardt, D.M. Engle, J. Miller, D. Debinski, and R. Harr. 2014. *Stocking rate constrains the establishment of the positive feedback and structural heterogeneity with patch-burn grazing*. Society for Range Management 68th Annual Meeting. Sacramento, CA.
19. **Scasta, J.D.**, D.M. Engle, D. Debinski, and R. McCulley. 2014. *Interactive fire and grazing to manage rangeland invaded by exotic C3 graminoids*. Western Society for Weed Science Annual Meeting. Colorado Springs, CO.
18. **Scasta, J.D.**, Engle, D.M., J.R. Weir. 2014. *Evaluating experiential prescribed fire education and changes in knowledge, abilities, perceptions, and adoption potential*. Society for Range Management 67<sup>th</sup> Annual Meeting. Orlando, FL.
17. **Scasta, J.D.**, and D.M. Engle. 2014. *Effect of prescribed fire on mechanisms of vegetative reproduction in buckbrush*. Western Society for Weed Science Annual Meeting. Colorado Springs, CO.
16. **Scasta, J.D.**, Fuhlendorf, S.D., Engle, D.M., Redfearn, D.D., and T.G. Bidwell. 2014. *Are exotic forages designer invasive plants? A systematic review and meta-analysis*. Society for Range Management 67<sup>th</sup> Annual Meeting. Orlando, FL.
15. Carlson, J.D., **Scasta, J.D.**, Weir, J.R., and D.M. Engle. 2013. *Combustion dynamics of cattle fecal pats ignited by rangeland fires*. 10<sup>th</sup> Annual Fire and Forest Meteorology Symposium. Bowling Green, KY.
14. **Scasta, J.D.**, Talley, J.L., and D.M. Engle. 2013. *Fire as a tool to manage dung dependent parasites of grazing cattle*. Livestock Insect Workers Conference. Nebraska City, NE.
13. **Scasta, J.D.** 2013. *Tall fescue invasion and implications for natural resource conservation*. Kansas Natural Resources Conference. Wichita, KS.
12. **Scasta, J.D.**, Engle, D.M., and R.N. Harr. 2013. *Response of buckbrush (*Symphoricarpos orbiculatus* Moench) to fire in tallgrass prairie*. Society for Range Management 66<sup>th</sup> Annual Meeting. Oklahoma City, OK.
11. **Scasta, J.D.** 2012. *Effects of patch-burn grazing on horn flies and implications for cattle production*. 9th Annual Research Symposium in Biological Sciences. Stillwater, OK.
10. **Scasta, J.D.**, Engle, D.M., Talley, J.L., Weir, J.R., Stansberry, J.C., Fuhlendorf, S.D., and R.N. Harr. 2012. *Effects of patch-burn grazing on horn flies and implications for cattle production*. Patch-Burn Grazing Working Group. Chase County, KS.
9. Talley, J.L., **Scasta, J.D.**, Engle, D.M., Weir, J.R., Stansberry, J.C., Fuhlendorf, S.D., and R.N. Harr. 2012. *Pyric-herbivory to manage horn flies (*Diptera: Muscidae*) on cattle*. 56<sup>th</sup> Annual Livestock Insect Workers Conference. Kalispell, MT.
8. **Scasta, J.D.**, and Engle, D.M. 2012. *Applying patch-burn grazing in tallgrass prairie rangeland invaded by an exotic cool season grass*. Society for Range Management, 65th Annual Meeting. Spokane, WA.
7. **Scasta, J.D.**, Engle, D.M. and D.M. Debinski. 2012. *Impact of patch-burn grazing on fly pressure on range cattle in the Great Plains*. Society for Range Management, 65<sup>th</sup> Annual Meeting. Spokane, WA.
6. **Scasta, J.D.**, McGranahan, D.A., Engle, D.M., Miller, J.R. and D.M. Debinski. 2011. *Effects of fire and grazing on plant species composition of fescue-invaded eastern tallgrass prairie*. 8th Annual Research Symposium on Multivariate Methods in Community Ecology, Oklahoma State University. Stillwater, OK.
5. **Scasta, J.D.** 2011. *Beef cattle education in Navarro County, TX*. Search for Excellence in Livestock Production. National Association for County Agriculture Agents Annual Meeting and Professional Improvement Conference. Overland Park, KS.

4. **Scasta, J.D.**, C.R. Hart, and J. Goodwin, 2010. *Evaluating a county brush management field day in the blackland prairie of Texas*. Texas Section Society for Range Management Conference - Young Professionals Session. Odessa, TX.
3. **Scasta, J.D.** 2009. *Ecology and control of common persimmon (Diospyros virginiana)*. Texas Section Society for Range Management Conference - Young Professionals Session. Beaumont, TX.
2. **Scasta, J.D.**, J.H. O'Barr, G.N. McCauley, G.L. Steele, J.M. Chandler. 2004. *Regiment effect on rice growth and yield*. Proceedings of the Southern Weed Science Society. 57:74.
1. O'Barr, **J.H.**, J.D. Scasta, G.N. McCauley, G.L. Steele, J.M. Chandler. 2004. *Rice growth and yield as influenced by Regiment*. Proceedings of the Rice Technical Working Group. 30:183

**POSTERS (undergraduate student<sup>‡</sup>; graduate student<sup>‡</sup>) – 46 Total (note some redundancy with abstracts list)**

46. Wilbur, R., H. Wilmer, **J.D. Scasta**, G. Newman, M. Levy, V. Hillis, L.M. Porensky. 2024. *Against common sense: Co-producing prairie dog research for rangeland conservation and ranching livelihoods*. Society for Range Management 2024 Annual Meeting. Sparks, NV.
45. Wilmer, H., J. Spiess, W. Munger, D. Augustine, J.B. Taylor, S.M. Witiak, **J.D. Scasta**, S. Cox, N. Strong, A. Burns. 2024. *Table Mountain has a story to tell: Multispecies interactions characterize summer range sheep systems in the Centennial Mountains of Idaho, US*. Society for Range Management 2024 Annual Meeting. Sparks, NV.
44. Norton, A.<sup>‡</sup>, T. Gergein, **J.D. Scasta**. 2024. *Songbird community response to grazing and infrastructure on a sagebrush steppe ranch*. Society for Range Management 2024 Annual Meeting. Sparks, NV.
43. Gergeni, T., J. Rowntree, F. Cotrufo, J. Goodwin, **J.D. Scasta**. 2024. *Infrastructure development at the University of Wyoming's McGuire Research Ranch: Rangeland grazing innovations in high-elevation sagebrush*. Society for Range Management 2024 Annual Meeting. Sparks, NV.
42. Lieurance, W.<sup>‡</sup>, K. Hoopes, **J.D. Scasta**, D. Stoner, A. Hernandez, T. Stringham, J. Beck, E. Thacker. 2024. *Quantifying wild horse body condition: A methodological investigation using game cameras and observer bias corrections*. Society for Range Management 2024 Annual Meeting. Sparks, NV.
41. Norton, A.<sup>‡</sup>, T. Gergini, **J.D. Scasta**. 2024. *Songbird community response to grazing and infrastructure on a sagebrush steppe ranch*. Society for Range Management 2024 Annual Meeting. Sparks, NV.
40. Norton, A.<sup>‡</sup>, T. Gergini, S. Hook, J. Goodwin, **J.D. Scasta**. 2023. *Foraging behavior of beef cattle in an adaptive multi-paddock grazing system on a sagebrush steppe ranch in Wyoming*. Graduate Student Poster Session, Society for Range Management – Wyoming Section. Laramie, WY.
39. Reynolds, D.<sup>‡</sup>, **J.D. Scasta**, J.L. Beck, W. Stewart. 2023. *Evaluating wildlife friendly fencing*. Graduate Student Poster Session, Society for Range Management – Wyoming Section. Laramie, WY.
38. Buchanan, C.E.<sup>‡</sup>, S.J. Galla, J.S. Forbey, **J.D. Scasta**, J.L. Beck. 2023. *Seasonal and geographic differences in diets of feral horses among BLM Herd Management Areas*. Graduate Student Poster Session, Society for Range Management – Wyoming Section. Laramie, WY.
37. Norton, A.<sup>‡</sup>, T. Gergini, **J.D. Scasta**. 2023. *Songbird community response to grazing and infrastructure on a sagebrush steppe ranch*. America's Grasslands Conference. Cheyenne, WY.
36. Kersh, A.<sup>‡</sup>, **J.D. Scasta**, J. Derner, H. Fraley, W. Stewart. 2023. *Insights into what influences sheep use of the poisonous plant plains larkspur*. America's Grasslands Conference. Cheyenne, WY.
35. Kersh, A.<sup>‡</sup>, **J.D. Scasta**, J. Derner, H. Fraley, W. Stewart. 2023. *Sheep foraging relative to stock density, time of day, and sheep type in a poisonous plant context*. American Society for Animal Science. Albuquerque, NM.

34. Gergeni, T., **J.D. Scasta**. 2021. *Ranch-scale soil health, forage quality, and cattle grazing capacity linkages in a high-elevation steppe*. 8<sup>th</sup> National Grazing Lands Conference (NatGLC). Myrtle Beach, SC.
33. Powell, C.<sup>‡</sup>, A.C. Pratt, J.D. Hennig, **J.D. Scasta**, J.L. Beck. 2020. *Free-roaming horse impacts on sage-grouse winter habitat*. Genomics Underlying Toxin Tolerance (GUTT) Annual Workshop.
32. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, J.L. Beck. 2020. *Response of sagebrush habitat characteristics to feral horse grazing*. 2020 Society for Range Management 73rd Annual Meeting. Denver, CO.
31. Wilbur, R.<sup>‡</sup>, **J.D. Scasta**. 2020. *Sparks at the campfire: Participant aspirations and motivations towards forming the Wyoming Prescribed Fire Council*. 2020 Society for Range Management 73rd Annual Meeting. Denver, CO.
30. Estep, C.E.<sup>‡</sup>, **J.D. Scasta**, J.P. Ott, T.W. Ocheltree, A.J. Symstad, C. Grey, B.E. Dickerson, J. Reardon. 2020. *Prescribed fall fire decreases annual brome and sagebrush abundance in the Thunder Basin ecoregion in northeastern Wyoming*. Society for Range Management 73rd Annual Meeting. Denver, CO.
29. Powell, C.<sup>‡</sup>, J.L. Beck, A.C. Pratt, **J.D. Scasta**, J.D. Hennig. 2019. *Free-roaming horse impacts on sage-grouse winter habitat*. The Wildlife Society – Wyoming Section. Sheridan, WY.
28. **Scasta, J.D.**, J.D. Hennig<sup>‡</sup>, J.L. Beck, S.E.R. Leverkus, S.D. Fuhlendorf, M. Geertsema, B.W. Allred, M. Gregory, A.R. Bevington, and D.M. Engle. 2019. *North American horse spatial ecology: GPS tracking insights from desert to boreal*. International Wild Equid Conference. Prague, Czech Republic.
27. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, and J.L. Beck. 2019. *Selection for dynamic variables by introduced wild horses*. International Association for Landscape Ecology. Fort Collins, CO.
26. Gergeni, T.<sup>‡</sup>, and **J.D. Scasta**. 2019. *Effects of grazing intensity from 2017-2019 on soil health in a northern mixed grass prairie*. Sustainable Agriculture, Research, and Extension Center (SAREC) Field Day. Lingle, WY.
25. Ott, J., T. Ocheltree, L. Porensky, J. Reardon, **J.D. Scasta**, A. Symstad, and C. Estep<sup>‡</sup>. 2019. *Fire effects on herbaceous regeneration across an invasion gradient in grasslands and shrublands*. Black Hills Area Botanists and Ecologists Workshop. Rapid City, SD.
24. **Scasta, J.D.**, G.E. Overbeck, F.F. Furquim<sup>‡</sup>, I.I. Boldrini, and J.R. Weir. 2019. *Botanical comparison of mesic grasslands in North America and Brazil: Implications of fire dependency and rangeland function?*. Society for Range Management 72nd Annual Meeting. Minneapolis, MN.
23. **Scasta, J.D.**, T. Plechaty<sup>‡</sup>, J.D. Derner, S.L. Lake, D.J. Augustine, J.L. Windh<sup>‡</sup>, and T.L. Smith. 2018. *Confined cattle feeding trial to validate fecal DNA metabarcoding to inform rangeland free-roaming diet applications*. Society for Range Management 71st Annual Meeting. Sparks, NV.
22. Gergeni, T.<sup>‡</sup>, and **J.D. Scasta**. 2018. *Effects of grazing intensity on soil health and forage production in a northern mixed grass prairie*. Sustainable Agriculture, Research, and Extension Center (SAREC) Field Day. Lingle, WY.
21. Connell, L.C.<sup>‡</sup>, **J.D. Scasta**, and L.M. Porensky. 2018. *Small mammals and wildfires shape vegetation structure in a sagebrush grassland more than rest from livestock and native ungulate grazing*. Great Plains Grasslands Summit. Denver, CO.
20. Carpenter, K.T.<sup>‡</sup>, W.C. Stewart, **J.D. Scasta**, J.P. Ritten, J.B. Taylor, and S.L. Lake. 2018. *Quantitative analysis of ewe size and breed performance on semi-arid rangelands 2007-2017*. Wyoming Wool Growers Association Annual Conference. Laramie, WY.
19. **Scasta, J.D.** 2017. *Socio-ecology and typology of dichotomous groups in Wyoming, USA with implications for agriculture and conservation*. Society for Range Management 70th Annual Meeting. St. George, UT.

18. Derner, J., D. Briske, M. Reeves, T. Brown-Brandl, M. Meehan, D. Blumenthal, W. Travis, D. Augustine, H. Wilmer, **J.D. Scasta**, J. Hendrickson, J. Volesky, L. Edwards, and D. Peck. 2017. *Vulnerability of grazing and confined livestock in the Northern Great Plains to projected mid- and late- 21<sup>st</sup> century climate*. Society for Range Management 70th Annual Meeting. St. George, UT.
17. **Scasta, J.D.** 2016. *Forage quality of Wyoming rangeland grasses*. University of Wyoming Agricultural Experiment Station Family Farm Day. Laramie, WY.
16. Connell, L.C.<sup>‡</sup>, **J.D. Scasta**, and L.M. Porensky. 2016. *Black-tailed prairie dog response to the conspecific cues from a novel source*. Wyoming Chapter of the Wildlife Society and Wyoming Section of the Society for Range Meeting Joint Annual Conference. Cody, WY.
15. Hennig, J.D.<sup>‡</sup>, **J.D. Scasta**, and J.L. Beck. 2016. *A global systematic review of safety and application of GPS collars on free-roaming equids*. Wyoming Chapter of the Wildlife Society and Wyoming Section of the Society for Range Meeting Joint Annual Conference. Cody, WY.
14. Connell<sup>‡</sup>, L., **J.D. Scasta**, and L. Porensky. 2015. *Interactive effects of herbivory and disturbance on plant communities in Thunder Basin National Grassland*. University of Wyoming Department of Ecosystem Science and Management, Research Across Disciplines Seminar. Laramie, WY.
13. Fitzpatrick<sup>‡</sup>, B., M. Murphy, J. Truchot, and **J.D. Scasta**. 2015. *Classroom citizen science in northeast Wyoming*. University of Wyoming Department of Ecosystem Science and Management, Research Across Disciplines Seminar. Laramie, WY.
12. **Scasta, J.D.** 2015. *Can grazing mediate fire behavior, scorch, and mortality of Ponderosa pine in Wyoming?*. Joint Meeting of Wyoming Section of the Society for Range Management, Wyoming Association of Conservation Districts, and Wyoming Weed and Pest Council. Laramie, WY.
11. **Scasta, J.D.** 2015. *Extension rangeland research at the University of Wyoming Agricultural Experiment Station*. University of Wyoming Agricultural Experiment Station Family Farm Day. Laramie, WY.
10. **Scasta, J.D.**, C.J. Duchardt, D.M. Engle, J.R. Miller, D.M. Debinski, and R.N. Harr. 2015. *Stocking rate constrains the establishment of the positive feedback and structural heterogeneity with patch-burn grazing*. Society for Range Management 68th Annual Meeting. Sacramento, CA.
9. **Scasta, J.D.**, and D.M. Engle. 2014. *Effect of prescribed fire on mechanisms of vegetative reproduction in buckbrush*. Western Society for Weed Science Annual Meeting. Colorado Springs, CO.
8. **Scasta, J.D.**, Weir, J.R., and D.M. Engle. 2014. *Evaluating experiential prescribed fire education and changes in knowledge, abilities, perceptions and adoption potential*. Society for Range Management 67th Annual Meeting. Orlando, FL.
7. Kane K., D.M. Debinski, C. Anderson, **J.D. Scasta**, D.M. Engle, and J.R. Miller. 2013. *The projected effects of climate change on plant species distributions in grasslands of Iowa*. 98th Annual Meeting of the Ecological Society of America, Minneapolis, MN.
6. **Scasta, J.D.**, Engle, D.M., and J.R. Weir. 2013. *Combustion dynamics of cattle fecal pats*. Society for Range Management 66<sup>th</sup> Annual Meeting. Oklahoma City, OK. (1<sup>st</sup> place PhD poster)
5. **Scasta, J.D.**, Engle, D.M. and D.M. Debinski. 2012. *Applying patch-burn grazing in tallgrass prairie rangeland invaded by an exotic cool season grass*. Society for Range Management, 65<sup>th</sup> Annual Meeting. Spokane, WA.
4. Goodwin, J. and **J.D. Scasta**. 2011. *Ranch diversification in the blackland prairie of Texas: The 77 Ranch – Blooming Grove, TX*. Society for Range Management. Billings, MT. (1<sup>st</sup> Place Excellence in Rangeland Management Poster)
3. **Scasta, J.D.** 2010. *Monitoring utilization of pasture and rangeland forage to assist grazing management*

*decisions: A Central Texas county case study.* National Association of County Agriculture Agents Annual Conference. Tulsa, OK.

2. Isakeit, T., R.R. Minzenmayer, A. Abrameit, G. Moore, and **J.D. Scasta**. 2010. *Control of Phymatotrichopsis root rot of cotton with Flutriafol*. Beltwide Cotton Conference. New Orleans, LA.
1. **Scasta, J.D.**, C. Trostle, M. Foster, D.L. Auld, C.J. Green, and H. Zhang. 2008. *Screening of alfalfa cultivars for salt tolerance*. North American Alfalfa Improvement Conference. Dallas, TX.

### **EXTRAMURAL FUNDING**

**Career Extramural Funding Total Received = \$3,754,681 (total across all collaborating institutions = \$30.77 M)**

#### ***FUNDED PROPOSALS***

*Competitive (Career Grand Total of All Proposals = \$30,770,726; Sub-Total To Me = \$2,890,885)*

<b>#</b>	<b>Year, Title, Role</b>	<b>Source</b>	<b>Amount</b>
54.	2023. USDA-NRCS Wildlife friendly fencing funded through the Conservation Effects Assessments Project (CEAP). J.D. Scasta (PI)	USDA-NRCS	<b>\$100,068.00</b>
53.	2023. Graduate T&F Awards for 1 graduate student (K. White, Spring 2024 only). J.D. Scasta (Applicant)	UW College of Agriculture and Natural Resources, Y Cross Ranch Endowment	<b>\$5,278.00</b>
52.	2023. Graduate T&F Awards for 1 graduate students and ESM stipend (D. Reynolds). J.D. Scasta (Applicant)	UW College of Agriculture and Natural Resources, Y Cross Ranch Endowment and Ecosystem Science and Management	<b>\$16,450.00</b>
51.	2021. Noble-FFAR. Metrics, Management, and Monitoring: An Investigation of Pasture and Rangeland Soil Health and Its Drivers. J. Rowntree, I. De Faria Maciel, F. Cotrufo, (PIs) J.D. Scasta (Partner and WY Intensive Site Coordinator)	Decision in fall 2021???	<b>\$1,260,999</b> <b>(my portion out of total of \$19,000,000)</b>
50.	2021. University of Wyoming Extension Implementation Program Team Plan. 2021-05136. S. Schell, J. Connett, W. Stewart, <b>J.D. Scasta (PIs)</b>	Crop Protection and Pest Management's (CPPM)-Extension Implementation Program (EIP)	<b>\$117,825.00</b>
49.	2020. WYO-620-21 Horse and cattle diet precision technology. <b>J.D. Scasta (PI)</b>	UW AES McEntire Stennis	<b>\$22,880.00</b>
48.	2020. Graduate T&F Awards for 2 graduate students. <b>J.D. Scasta (Applicant)</b>	UW College of Agriculture and Natural Resources, Y Cross Ranch Endowment	<b>\$18,000.00</b>
47.	2020. Grazing the carnivore forests for sustainable production of food, timber and biodiversity: CarniForeGraze (B. Zimmerman (PI), A. Nielsen, <b>J.D. Scasta</b> , C. Wikenros, F. Herzog ( <b>Project Partners</b> ))	MILJØFORSK-call of the Research Council of Norway, Inland Norway University of Applied Sciences INN	<b>\$9,821.00</b> <b>(my portion out of total \$1,565,800)</b>
46.	2019. Graduate Tuition and Fee (T&F) Awards for 2 graduate students (J.D. Scasta)	University of Wyoming College of Agriculture and Natural Resources, Y Cross Ranch Endowment	<b>\$13,500.00</b>
45.	2019. Free-roaming horse impacts on sage-grouse nest site selection and success (J.L. Beck (PI), J.D. Hennig,	Wyoming Sage-Grouse Conservation Funds	<b>\$35,650.00</b>

	K.T. Smith, <b>J.D. Scasta</b> , P. Street, A.C. Pratt ( <b>Co-PIs</b> )		
44.	2019. Developing Decision Support Tools for Management of Free-Roaming Equids on Public Lands in the Mountain West: An Ecological Assessment (D. Stoner (PI), E. Thacker (PI), <b>J.D. Scasta</b> , T. Stringham, and J.L. Beck ( <b>Co-PIs</b> ))	Utah Public Lands Initiative (PLI)	<b>\$52,000.00</b>
43.	2019. Southern Rockies Fire Science Network 19-21. A.S. Cheng, G.J. Edwards, D. MacAvoy, <b>J.D. Scasta</b> ( <b>Co-PI</b> )	Joint Fire Sciences Program – Funding Extension Proposal.	<b>\$6,000.00</b> (my portion out of total \$250,000.00)
42.	2019. Trace mineral concentrations in common Wyoming plants on sheep winter range. W. Stewart (PI), <b>J.D. Scasta</b> ( <b>Co-PI</b> )	National Sheep Industry Improvement Center (NSIIC)	<b>\$15,099.00</b>
41.	2018. Benefits from prescribed fire on rangelands – applying usable science to increase awareness. K. Maczko (PI), J. Tanaka, <b>J.D. Scasta</b> ( <b>Co-PIs</b> )	United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS)	<b>\$176,000</b>
40.	2018. RII Track-2 FEC: Genomics Underlying Toxin Tolerance (GUTT): Identifying molecular innovations that predict phenotypes of toxin tolerance in wild vertebrate herbivores. J. Forbey (PI), E. Hayden, R. Liu, M. Matocq, L.A. Robinson (Co-PIs), <b>J.D. Scasta</b> ( <b>Early Career Faculty (ECF); 1 of 18 other ECFs</b> )	National Science Foundation (NSF)	<b>\$19,288</b> (my portion out of total \$6,000,000)
39.	2018. Center of Excellence: Sustainable extensive rangeland agricultural systems in high altitude headwater areas. G.B. Paige, J.P. Ritten, J. Beck, W. Stewart, <b>J.D. Scasta</b> , B. Mealor, M. Murphy, S. Lake, S. Paisley, K. Vaughan, R. Coupal, T. Collier, A. Latchininsky ( <b>Co-PIs</b> )	United States Department of Agriculture (USDA), NIFA; University of Wyoming Agricultural Experiment Station (McIntire Stennis)	<b>\$50,000</b>
38.	2018. Graduate Tuition and Fee (T&F) Awards for 3 graduate students. <b>J.D. Scasta</b> and S.N. Miller ( <b>Co-applicants</b> )	University of Wyoming College of Agriculture and Natural Resources, Y Cross Ranch Endowment	<b>\$18,000</b>
37.	2018. Resource selection overlap between greater sage-grouse and co-occurring species. J. Beck (PI), J.D. Hennig, <b>J.D. Scasta</b> ( <b>Co-PIs</b> )	Wyoming Game and Fish Department, Sage-grouse Working Groups	<b>\$39,950</b>
36.	2018. Establishing the University of Wyoming Extension “Range Management Institute” program to equip professionals with basic skills to address contemporary challenges. K. Crane, <b>J.D. Scasta</b> , B. Stam ( <b>Co-PIs</b> )	Western Sustainable Agriculture Research & Education (WSARE), Professional Development Program (PDP) Enhanced State Program Grant Funding	<b>\$24,970</b>
35.	2018. Participatory research to quantify prairie dog impacts on livestock production in western rangelands. A. Davidson (PI), L. Porensky, D. Augustine, J. Derner, D. Pellatz, <b>J.D. Scasta</b> , A. Garrelts ( <b>Co-PIs</b> )	United States Department of Agriculture (USDA), AFRI Foundational, Critical Agricultural Research and Extension (CARE)	<b>\$51,428</b> (my portion out of total \$300,000)
34.	2018. North Tongue RHAP 2017.	Wyoming Department of Agriculture,	<b>\$20,000</b>

	C. Rogaczewski, <b>J.D. Scasta</b> , B. Stam ( <b>Co-applicants</b> )	Rangeland Health Assessment Program (RHAP)	
33.	2017. Comparing US feral horse ecology and management to Australia and New Zealand. <b>J.D. Scasta (PI)</b>	UW College of Agriculture and Natural Resources, Global Perspectives Grant Program	<b>\$4,986</b>
33.	2017. UW Extension Implementation Program for Crop Protection and Pest Management – Integrated Pest Management Proposal - Cattle Parasite Speciation, Prevalence, and Economic Loss Survey to Direct the Development of IPM Plan for Wyoming and Regional producers (my specific Priority within the larger proposal). S.P. Schell, D.R. Tekiela, J.F. Connett, A.V. Latchininsky, <b>J.D. Scasta (Co-PIs)</b>	United States Department of Agriculture (USDA), NIFA, EIP	<b>\$26,919</b> (my portion out of total \$508,812 (+ \$7,658 extra added in 2018 and + \$4,317 in 2019 after Latchininsky left))
31.	2017. Graduate T&F Awards for 3 graduate students. <b>J.D. Scasta</b> and S.N. Miller ( <b>Co-applicants</b> )	UW College of Agriculture and Natural Resources, Y Cross Ranch Endowment	<b>\$24,000</b>
30.	2017. Fire effects on herbaceous regeneration across an invasion gradient in grasslands and shrublands. J.P. Ott (PI), B. Dickerson, J. Reardon, A. Symstad, L. Porensky, T. Ocheltree, <b>J.D. Scasta (Co-PIs)</b>	Joint Fire Science Program (JFSP), Task 04 Effects of Fire on Tissue and Seeds of Herbaceous Plants and Shrubs	<b>\$76,404</b> (my portion out of total \$359,477)
29.	2017. Wyoming State SARE Program – Professional Development Travel Scholarship for “Ten Years of Research in the Grand River Grasslands: Key Findings and Future Directions” <b>J.D. Scasta (PI)</b>	Western Sustainable Agriculture Research & Education (WSARE)	<b>\$1,476</b>
28.	2016. Federal Work-Study for Rangeland Ecology and Management Undergraduate Research Technician. <b>J.D. Scasta (PI)</b>	Federal, Cath Harris Ag Business Office	<b>\$3,000</b>
27.	2016. University of Wyoming Wild Horse GPS Collar Project on Adobe Town HMA. <b>J.D. Scasta (PI)</b> , J. Beck (Co-PI)	Department of Interior, Bureau of Land Management	<b>\$40,000</b>
26.	2016. GW17-059 - Cattle Diets and Performance: Enhancing What We Know with Advanced Plant DNA Technology. T. Plechaty (Grad Student), <b>J.D. Scasta (Advisor)</b>	Western Sustainable Agriculture Research & Education (SARE), Graduate Student Proposal	<b>\$24,970</b>
25.	2016. Southern Rockies Fire Science Network 09-S-04-11. A.S. Cheng, G.J. Edwards, D. MacAvoy, <b>J.D. Scasta (Co-PI)</b>	Joint Fire Sciences Program – Funding Extension Proposal.	<b>\$7,200</b> (my portion out of total \$450,000)
24.	2016. Travel exchange to link ecology and production of analogous rangelands of Northern and Southern hemispheres. <b>J.D. Scasta (PI)</b> , G. Overbeck	University of Wyoming Center for Global Studies Faculty International Research Grant	<b>\$3,975</b>
23.	2016. Application of the Robel pole visual obstruction	University of Wyoming EPSCoR	<b>\$5,300</b>

	method of determining grazing utilization relative to site, timing, precipitation, and repeatability. J. Windh (Undergrad Student), <b>J.D. Scasta (Advisor)</b>	Undergraduate Research Fellowships Program	
22.	2016. Linking native American culture with the rangeland resources. <b>J.D. Scasta (PI)</b> , D. Rodgers, P. Smith, C. Friday	University of Wyoming, Academic Affairs, Recruitment of Under-Represented Domestic Minority (URDM) Graduate Students Program	<b>\$41,448</b>
21.	2016. Enhanced ecological vegetation inventory of high-elevation basins in the Wind River Indian Reservation to link Native American culture with the rangeland resource. <b>J.D. Scasta (PI)</b> , D. Rodgers, P. Smith, C. Friday	Bureau of Indian Affairs/Department of Interior, Range and Soil Inventory Program	<b>\$130,151</b>
20.	2015. Wild horse spatial movement patterns across the public-private land matrix, rangeland habitat use, and interactions with wildlife and livestock. <b>J.D. Scasta (PI)</b> , J.L. Beck, J.B. Dinkins	Wyoming Department of Agriculture, Wild Horse Research Program – Wildlife (WHRP-W)	<b>\$120,000</b>
19.	2015. ESM range and soils Extension delivery enhancement. S. Miller, <b>J.D. Scasta (Co-PI)</b> , J. Norton	University of Wyoming Extension, Grant for Technology Equipment and Other Program Enhancements	<b>\$3,072</b>
18.	2015. Comparing cattle nutritional plane to forage quality to determine mineral intake and deficiencies. B.E. Horn, <b>J.D. Scasta (Research Advisor)</b>	Wyoming Department of Agriculture, Agriculture Producer Research Grant Program (APRGP)	<b>\$22,230</b>
17.	2015. Advancing landowner tools for use with the greater-sage grouse umbrella candidate conservation agreement with assurances (CCAA) for Wyoming ranch management. <b>J.D. Scasta (PI)</b> , J. Tanaka	University of Wyoming, Agricultural Experiment Station, USDA National Institute of Food and Agriculture McIntire Stennis Project	<b>\$20,000</b>
16.	2015. Animal-plant interaction ecology on Wyoming rangelands, 2015-2020. Project# WYO-559-15. <b>J.D. Scasta (PI)</b>	University of Wyoming, Agricultural Experiment Station, USDA National Institute of Food and Agriculture McIntire Stennis Project	<b>\$53,750</b> (eligibility for Departmental capacity research funds)
15.	2015. Wyoming livestock predation trends and mitigation survey. <b>J.D. Scasta (PI)</b>	Wyoming Animal Damage Management Board	<b>\$15,265</b>
14.	2014. Do agricultural and environmental interest groups assign disparate values to Wyoming's Open Spaces? <b>J.D. Scasta (PI)</b>	University of Wyoming, Open Spaces Initiative, Haub School of Environment and Natural Resources	<b>\$10,210</b>
13.	2014. Quantifying ecological dynamics and herbivore impacts in Thunder Basin. <b>J.D. Scasta (Co-PI)</b> , L. Porensky (Co-PI)	Thunder Basin Research Initiative, USDA Agricultural Research Service and UW Agricultural Experiment Station	<b>\$70,335</b>
12.	2013. Factsheets (Development of two factsheets on the application and benefits of patch-burning). <b>J.D. Scasta (PI)</b>	Great Plains Fire Science Exchange	<b>\$600</b>



11.	2012. The complex role of tall fescue in grassland ecology. E2012-01. Diane Debinski (PI), Rebecca McCulley, Dave Engle, <b>J.D. Scasta (Co-PIs)</b>	Leopold Center for Sustainable Agriculture, Ecology Initiative	<b>\$86,333</b>
10.	2008 – 2011. Support for general county extension programming and demonstration work. <b>J.D. Scasta (PI)</b>	Navarro County Community Foundation	<b>\$19,000</b>
9.	2007 – 2011. Support used for county Waste Management program which focused on watershed health. <b>J.D. Scasta (PI)</b>	Trinity River Authority - Clean Rivers Program	<b>\$10,000</b>
8.	2007 – 2011. Support used for county Waste Management which focused on watershed health. <b>J.D. Scasta (PI)</b>	Tarrant Regional Water District	<b>\$10,000</b>
7.	2007 – 2009. Support used for county Waste Management program which focused on watershed health. <b>J.D. Scasta (PI)</b>	Firestone Corporation Environmental Grant	<b>\$4,500</b>
6.	2010. Support used for county Waste Management program which focused on watershed health. <b>J.D. Scasta (PI)</b>	Pactiv Corporation Grant	<b>\$150</b>
5.	2007 – 2008. Support used for county Waste Management program which focused on watershed health. <b>J.D. Scasta (PI)</b>	Bank of America Trust and Grants	<b>\$2,400</b>
4.	2005 – 2007. Support used for water and natural resource projects in Ward County. <b>J.D. Scasta (PI)</b>	Rio Grande Basin Initiative	<b>\$7,500</b>
3.	2004 – 2007. Support used for youth development and education activities administered through the 4H and Youth Development program. <b>J.D. Scasta (Co-PI)</b> , A. Pritchard (Co-PI)	T.C. Barnsley Foundation Grant	<b>\$5,000</b>
2.	2005 – 2006. Support used for 4H shooting sports equipment. G. Wilhelm, A. Pritchard, <b>J.D. Scasta (Advisor)</b>	Friends of the National Rifle Association Grant	<b>\$7,000</b>
1.	2005. Support used for Ward County Junior Master Gardener program. L. Wilhelm, A. Pritchard, <b>J.D. Scasta (Advisor)</b>	USDA - RC&D	<b>\$500</b>
<i>Non-Competitive Internal and Industry Support (Career Sub-Total = \$863,796)</i>			
38.	2023. UW AES Support to purchase a hand-held near infrared reflectance spectroscopy scanner for forage analysis <b>J.D. Scasta (PI)</b>	UW AES	<b>\$20,239.50</b>
37.	2023. USDA-ARS Sheep station support for a graduate student	USDA-ARS	<b>\$15,911.00</b>

35.	2022. UW AES Hatch Support for UW McGuire Fencing	UW AES	<b>\$40,000.00</b>
34.	2021. Ag Dean support for Herddog smart tags for cattle	Ag Dean/Foundation	<b>\$3,798.00</b>
33.	2020. USDA ARS Support for sheep grazing larkspur	USDA ARS	<b>\$32,880.00</b>
32.	2020. USDA ARS Support for Greasewood Fire	USDA ARS	<b>\$25,332.00</b>
31.	2020. Graduate Student Support for Bighorn National Forest – Tongue District Robel Pole Monitoring Project. <b>J.D. Scasta (PI)</b>	SR Cattle Company	<b>\$1,000.00</b>
30.	2020. Graduate Student Support for Bighorn National Forest – Tongue District Robel Pole Monitoring Project. <b>J.D. Scasta (PI)</b>	Padlock Ranch	<b>\$5,800.00</b>
29.	2019. Thunder Basin Rangeland Research Enhancement Proposal. <b>J.D. Scasta (PI)</b> and L. Porensky (Co-PI)	Arch Coal	<b>\$19,955.20</b>
28.	2019. Support for International Wild Equid Conference (IWECC). <b>J.D. Scasta (PI)</b> , J.L. Beck, J. Hennig	University of Wyoming, Agricultural Experiment Station, Hatch Regional Research Funds	<b>\$12,141.00</b>
27.	2019. Support for Wyoming Rangeland Management Initiative. <b>J.D. Scasta (PI)</b> and B.L. Stam (Co-PI)	Society for Range Management – Wyoming Section	<b>\$2,500.00</b>
26.	2019. University of Wyoming contribution to “Land-Grant University Assessment of Feral Horse Body Condition in NV, UT, and WY”. <b>J.D. Scasta (PI)</b> and J.L. Beck (Co-PI)	University of Wyoming, Agricultural Experiment Station	<b>\$15,000.00</b>
25.	2018. UW AES Instrumentation Funding. <b>J.D. Scasta (PI)</b>	University of Wyoming, Agricultural Experiment Station	<b>\$6,500</b>
24.	2018. Tongue District Rangeland Monitoring. <b>J.D. Scasta</b> and B. Stam ( <b>Co-PIs</b> )	Big Horn Cattlemen’s Association	<b>\$3,500</b>
23.	2018. Tongue District Rangeland Monitoring. <b>J.D. Scasta</b> and <b>B. Stam (Co-PIs)</b>	Guardians of the Range	<b>\$10,000</b>
22.	2018. Tongue District Rangeland Monitoring, Summer of 2019 Seed Funds. <b>J.D. Scasta</b> and B. Stam ( <b>Co-PIs</b> )	University of Wyoming, Agricultural Experiment Station	<b>\$29,562.40</b>
21.	2018. Portable livestock corral system for rangeland research. <b>J.D. Scasta (PI)</b>	University of Wyoming, College of Agriculture and Natural Resources, Wyoming is our Classroom	<b>\$15,000</b>
20.	2018. Supplemental support for fire ecology research in the Thunder Basin. J. Ott (PI), T. Ocheltree, L.M. Porensky, A. Symstad, <b>J.D. Scasta (Co-PIs)</b>	United States Forest Service, Rocky Mountain Research Station	<b>\$20,000</b>
19.	2017. Thunder Basin support to extend M.S. student	University of Wyoming, Agricultural	<b>\$11,150</b>

	funding for 1 semester. <b>J.D. Scasta (PI)</b>	Experiment Station, McIntire Stennis	
18.	2017. Ungulate spatial ecology specialized equipment. <b>J.D. Scasta and J.L. Beck (Co-PIs)</b>	University of Wyoming, Agricultural Experiment Station, USDA National Institute of Food and Agriculture McIntire Stennis Project	<b>\$154,527</b>
17.	2017. Antelope GPS collar and spatial ecology research for the Adobe Town area. J.L. Beck, <b>J.D. Scasta</b> , J. Hennig ( <b>Co-PIs</b> )	Rawlins Field Office, Bureau of Land Management	<b>\$55,900</b>
16.	2016. WesMar Bighorn Mountains Grazing Research. <b>J.D. Scasta (PI)</b>	WesMar Trust, UW Ecosystem Science and Management	<b>\$8,000</b>
15.	2016. Practical aspects of soil health and grazing to support PhD Student. (Original award acquired by K. Maczko and J. Tanaka with a sub-award to me) <b>J.D. Scasta (PhD Student Advisor)</b>	Sustainable Rangelands Roundtable and Natural Resources Conservation Service	<b>\$57,155</b>
14.	2016. Tractor and equipment for rangeland management applied research and demonstrations. <b>J.D. Scasta (Lead)</b>	University of Wyoming Extension	<b>\$84,000</b>
13.	2016. Joint USDA-ARS UW grazing ecology M.S. research project with additional support for Tami Plechaty (Graduate student) DNA metabarcoding. <b>J.D. Scasta (Advisor)</b>	USDA Agriculture Research Service	<b>\$10,000</b>
12.	2016. Weather Instrumentation for Educators, 25 HOBO U30 weather stations with data shuttle, HOBOWare, Rain sensor, 3W solar panel, and tripod kit. <b>J.D. Scasta (Lead)</b>	University of Wyoming Extension	<b>\$51,882</b>
11.	2016. Donation of three Lotek 5330 Store-on Board Large Ungulate GPS Collars. <b>J.D. Scasta (PI)</b>	Shifting Mosaics Environmental Consulting, Fort Nelson, British Columbia, Canada	<b>\$6,000</b>
10.	2015. UW Thunder Basin Research Initiative exclosure fence construction. <b>J.D. Scasta (PI)</b>	Arch Western Resources LLC, Thunder Basin Coal Company LLC	<b>\$20,000</b>
9.	2015. Joint USDA-ARS UW grazing ecology M.S. research project. <b>J.D. Scasta (Advisor)</b>	USDA Agriculture Research Service	<b>\$50,000</b>
8.	2015. Rangelands journal, Special Drought Issue Sponsorship for Open Access and printing. <b>J.D. Scasta, W.K. Kelley (Co-coordinators)</b>	Northern Plains Climate Hub and OSU Rangeland Fire Ecology Trust	<b>\$17,850</b>
7.	2013-2014. Internal research support for nutritional plane of beef cows on rangeland managed with patch-burning. D.M. Engle, J. Weir, S. Fuhlendorf, <b>J.D. Scasta (Coordinator)</b>	Oklahoma State University, Natural Resource Ecology and Management	<b>\$6,000</b>

6.	2008 – 2011. Navarro County TX Beef Management Calendar. <b>J.D. Scasta (Coordinator)</b>	24 Navarro County, Texas Agri-businesses annually	<b>\$12,880</b>
5.	2007 – 2010. Navarro County TX Hay Testing Drive. <b>J.D. Scasta (Coordinator)</b>	7 Navarro County, Texas Agri-businesses annually	<b>\$3,800</b>
4.	2007 – 2010. Navarro County TX Food and Fiber Roundup. <b>J.D. Scasta (Coordinator)</b>	25 Navarro County, Texas Agri-businesses annually	<b>\$11,300</b>
3.	2008 – 2009. Navarro County TX Beef Cattle Clinic. <b>J.D. Scasta (Coordinator)</b>	13 Navarro County, Texas Agri-businesses annually	<b>\$2,600</b>
2.	2007 – 2011. Navarro County TX Youth Exposition Commercial Heifer Program. <b>J.D. Scasta (Coordinator)</b>	12 Navarro County, Texas Agri-businesses annually	<b>\$8,250</b>
1.	2006 – 2011. Herbicide and seed for brush control and row crop applied research and result demonstrations. <b>J.D. Scasta (Coordinator)</b>	Agricultural companies, including: Dow, Dupont, Pioneer, Monsanto, Syngenta, Southern Belle, BH Genetics, Triumph, HBK, SesaCo, and various small grain seed suppliers	<b>\$13,383</b>

**GRANTS THAT WERE SELECTED FOR FUNDING BUT DECLINED**

1.	2015. Developing spatial analysis tools to manage livestock grazing by improving grazing distribution models. L. Varelas, <b>J.D. Scasta (Advisor)</b> , M. Stephenson <i>Reason for Decline – This was written to support L. Varelas as a postdoctoral researcher but she accepted a position with Oregon State University prior to the notification of the award.</i>	USDA National Institute of Food and Agriculture (NIFA) Postdoctoral Fellowship	\$149,391 <b>DECLINED</b>
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**PROPOSALS NOT FUNDED**

28.	2023. USDA NIFA SAS. Virtual Fence+: An integrated solution to harness livestock for enhancing grazing land productivity and sustainability.	USDA-NIFA	<b>\$9,996,748.52</b> <b>NOT FUNDED</b>
27.	2021. Climate-smart commodities: incentives and markets in support of GHG emission reductions and soil health across United States grazing lands and silvopastures. 66 collaborators (J.D. Scasta Wyoming PI)	USDA Climate Smart Commodities	<b>\$96,726,473</b> <b>(my portion out of total = \$1.29 M)</b> <b>NOT FUNDED</b>
26.	2021. Reimagining sustainability for ranching and rural communities in the Western Great Plains. 21 collaborators (J.D. Scasta UW PI)	NIFA SAS Precision Rangeland Livestock Management.	<b>Total???</b> <b>(my portion out of total \$438,384)</b> <b>NOT FUNDED</b>
25.	2021. Good Neighbor Authority (GNA) strategies to address critical fuels management projects across the West. R. Wilbur and <b>J.D. Scasta (Advisor)</b>	Joint Fire Science Program (JFSP), Graduate Research Innovation (GRIN)	<b>\$19,228.00</b> <b>NOT FUNDED</b>

24.	2020. Improving productivity, efficiency, and sustainability of sheep and beef grazing systems. (H. Cunningham-Hollinger (PI), W. Stewart, C. Gifford, <b>J.D. Scasta</b> , T. Smith, S. Lake ( <b>Co-PIs</b> ))	C-Lock Equipment	<b>\$98,380.00</b> <b>NOT FUNDED</b>
23.	2019. Intestinal parasite burden in changing climate conditions – impact on sheep production and animal-based food resources. (B. Bangoura (PI), A.V.W. Piccorelli, W. Stewart, <b>J.D. Scasta</b> ( <b>Co-PIs</b> ))	University of Wyoming Faculty Innovation Grant	<b>\$90,000.00</b> <b>NOT FUNDED</b>
22.	2018. Evaluating the relationship between soil health, forage quality, and grazing capacity at the ranch-scale in a high-elevation steppe. T. Gergeni, <b>J.D. Scasta</b> ( <b>Advisor</b> )	Western Sustainable Agriculture Research & Education (SARE), Graduate Student Grant	\$24,712 <b>NOT FUNDED</b>
21.	2017. Free-roaming horse effects on pronghorn. Proposal No. 20170549. J. Hennig, J.L. Beck, <b>J.D. Scasta</b> ( <b>Co-PIs</b> )	Wyoming Governors Big Game License Coalition.	\$41,388 <b>NOT FUNDED</b>
20.	2017. RHAP.R1 North Tongue RHA 2017. C. Rogaczewski, <b>J.D. Scasta</b> , B. Stam ( <b>Co-applicants</b> )	Wyoming Department of Agriculture, Rangeland Health Assessment Program (RHAP)	\$20,000 <b>NOT FUNDED</b>
19.	2017. Soil health, forage and grazing. T. Gergeni (Ph.D. Student), <b>J.D. Scasta</b> ( <b>Advisor</b> )	Graduate Student Research Project, Western SARE	\$24,999 <b>NOT FUNDED</b>
18.	2017. Taking the technology off the station: no-till planting to enhance soil and forage. B. Stam, R. Phillips, <b>J.D. Scasta</b> , C. Marshall, C. Youngquist ( <b>Co-PIs</b> )	University of Wyoming, Agricultural Experiment Station	\$7,425 <b>NOT FUNDED</b>
17.	2017. Understanding and predicting interactions between wildland fires and beetle kill across states and national forests 17-2-01-22. <b>J.D. Scasta</b> ( <b>PI</b> ) and B. Marah (Student Investigator)	Joint Fire Science Program, Graduate Research Innovation (GRIN) Award	\$25,000 <b>NOT FUNDED</b>
16.	2017. SW17-074 – Engaging ranchers to address livestock distribution problems through the innovative use of GPS tracking and GIS technology. <b>J.D. Scasta</b> ( <b>PI</b> ), L. Henderson, M. Stephenson, B. Schultz, S. Arispe, B. Allred. W. Baldwin, T. Dufurrena, C. Martin, J. Purdy.	Western Sustainable Agriculture Research and Education (SARE) – Research and Education Grant	\$106,368 (my portion out of total \$248,729) <b>NOT FUNDED</b>
15.	2017. Silvopasture geo-spatial data analysis of cow GPS collars. S. Leverkus (PI), <b>J.D. Scasta</b> , J.L. Beck, J. Hennig, D. Gayton, A. Bevington ( <b>Co-PIs</b> )	Canada Ministry of Agriculture – British Columbia	\$7,447 (our portion out of total \$15,276) <b>NOT FUNDED</b>
14.	2016. Spatial Variability of soil health as affected by landform-management interactions in sagebrush-steppe rangelands. J. Norton (PI), <b>J.D. Scasta</b> , K. Vaughan, L. van Diepen, T. Kelleners, S. Miller ( <b>Co-PIs</b> )	USDA NIFA Agriculture and Food Research Initiative (AFRI), Foundational Program 005843	\$500,000 <b>NOT FUNDED</b>

13.	2016. Spatially explicit co-management for livestock production, energy development, and water in a heterogeneous semi-arid landscape. Co-PIs alphabetically: J. Ascough, D. Augustine, J. Beck, K. Mueller, M. Murphy (PI), T. Ocheltree, D. Pellatz, L. Porensky, B. Rashford, J. Ritten, <b>J.D. Scasta</b>	National Science Foundation, Innovations at the Nexus of Food, Energy and Water Program. INFEWS/T3	\$316,898 (my portion out of total \$2,995,640) <b>NOT FUNDED</b>
12.	2016. Field technician support for Thunder Basin applied ecology research. <b>J.D. Scasta (PI)</b> , L. Porensky	University of Wyoming, Faculty Grant-In-Aid	\$7,466.50 <b>NOT FUNDED</b>
11.	2015. Linking soil ecology with vegetation management to optimize restoration efforts of ponderosa pine after catastrophic wildfires. <b>J.D. Scasta</b> , L. van Diepen ( <b>Co-PIs</b> )	Joint Fire Sciences Program - 16-1-05 Post-fire landscape management Task	\$389,109 <b>NOT FUNDED</b>
10.	2015. Applied Fire Ecology REWM 4000/5000 Level Course and Fire Ecology Short Course. <b>J.D. Scasta (PI)</b>	University of Wyoming, Summer Session 2016 Call for Innovative Courses	\$4,962 <b>NOT FUNDED</b>
9.	2015. Grazing management, heritability of resistance, and genetics as alternative horn fly management strategies. <b>J.D. Scasta (PI)</b>	University of Wyoming, Agricultural Experiment Station Competitive Grants	\$88,937 <b>NOT FUNDED</b>
8.	2015. Assessment of methods to count wild horses: use of habitat, weather, and observer variables to better predict wild horse abundance and habitat use. J.L. Beck (PI), <b>J.D. Scasta (Co-PI)</b> , J. Dinkins	University of Wyoming, Agricultural Experiment Station Competitive Grants	\$90,000 <b>NOT FUNDED</b>
7.	2015. Restoring fire on Pole Mountain: monitoring effects on vegetation, livestock & wildlife. <b>J.D. Scasta (PI)</b>	Wyoming Wildlife and Natural Resource Trust (WWNRT)	\$176,224 <b>NOT FUNDED</b>
6.	2015. Assessment of methods to count wild horses: use of habitat, weather, and observer variables to better predict wild horse abundance and habitat use. J.B. Dinkins (PI), J.L. Beck, <b>J.D. Scasta (Co-PI)</b>	Wyoming Department of Agriculture, Wild Horse Research Program – Population (WHRP-P)	\$120,000 <b>NOT FUNDED</b>
5.	2014. Why isn't rangeland monitoring being used more? Overcoming barriers and equipping educators. <b>J.D. Scasta (PI)</b> , R. Meador, E. Thacker, A. Gearhart	Western Sustainable Agriculture Research and Education (SARE) Professional Development Program (PDP)	\$74,998 <b>NOT FUNDED</b>
4.	2014. The science and policy of wild horse management. E. Thacker (PI), D. Feuz, B. Burritt, A. Gearhart, <b>J.D. Scasta (Co-PI)</b> , and S. Swanson.	Public Lands Council (PLC)	\$22,575 <b>NOT FUNDED</b>
3.	2014. Bridging the gap between natural resource conservation and livestock production: linking fire, grazing and parasite management. <b>J.D. Scasta (PI)</b>	USDA AFRI Postdoctoral Fellowship	\$149,377 <b>NOT FUNDED</b>
2.	2012. Sustaining grass based beef production by reducing input costs.	USDA Sustainable Agriculture Research and Education Program –	\$11,000 <b>NOT</b>

<b>J.D. Scasta (PI)</b>	Graduate Student Grant	<b>FUNDED</b>
1. 2012. Effects of fire on native forb phenology in eastern tallgrass prairie. <b>J.D. Scasta (PI)</b>	Prairie Biotics	\$1,000 <b>NOT FUNDED</b>

### **MASS MEDIA TO NON-SCIENTIFIC AUDIENCES**

2023 *Taming Toxic Plants. Online YouTube Web Series on the UW Extension Channel*

Playlist: [https://www.youtube.com/playlist?list=PLBNu1peKp1UjdtRthd\\_4ueV0CKKP27P](https://www.youtube.com/playlist?list=PLBNu1peKp1UjdtRthd_4ueV0CKKP27P)

2,088 Total Views ranging from 77 to 409 per video (as of February 21<sup>st</sup>, 2024)

- Video Topics
  - o *Death camas poisoning*
  - o *Larkspur poisoning*
  - o *Grass tetany*
  - o *Pine needle abortion (PNA)*
  - o *Horse chewing disease from yellow starthistle/Russian knapweed*
  - o *Common toxins*
  - o *Lichen poisoning of elk and sheep*
  - o *Nitrates*
  - o *Cycloptic lambs from Veratrum*
  - o *Death camas spring field report*
  - o *Where does death camas grow?*

2020 *Ranching through COVID-19: Because Ag is Essential. Online YouTube Web Series (views as of 11/10/2022)*

- *Grazing Management (165 views)*
- *Branding and Coronavirus Safety (207 views)*
- *Finding Coronavirus Research (57 views)*
- *Forage Testing (27 views)*
- *Toxic Plants (27 views)*

### **BLOG**

2015-2020 'Rangelands 4 You' <http://wyoextension.org/rangelands4u/> Blog that will make rangeland scientific research palatable and accessible for all. Date and the reference to the summarized article are in parenthesis.

#### ***Posts:***

- *Economics of a bluetongue vaccine for range sheep in Wyoming (11/10/2017 – Munsick et al. 2017)*
- *How do fire and grazing interact in the northern Great Plains? (11/6/2017 – Powell et al. 2017)*
- *Feral horse use of riparian vegetation in sagebrush steppe (11/1/2017 – Boyd et al. 2017)*
- *SpayVac® contraception for feral horses (10/27/2017 – Roelle et al. 2017)*
- *How do feral horses affect pronghorn use and behavior around water? (10/24/2017 – Gooch et al. 2017)*
- *Does vasectomy or ovariectomy affect feral horse survival rates or reduce population growth? (10/20/2017 – Collins and Kasbohm 2016)*
- *Boosting PZP doses of PZP in free-roaming horses (10/17/2017 – Rutbert et al. 2017)*
- *Should Northern mixed-grass prairie be rested from grazing after spring wildfires? (4/1/2017 – Gates et al. 2017)*
- *Cattle response to prescribed fires in mesic sagebrush (3/20/2017 – Clark et al. 2017)*
- *How will a changing climate impact snowpack and fire potential in the West? (3/10/2017 – Gergel et al. 2017)*
- *If precipitation and forage production becomes more variable, what is the impact on cow-calf enterprises? (11/18/2016 – Hamilton et al. 2016)*
- *New open access 'Rangeland' journal issue with 11 science papers available (9/15/2016)*
- *Targeted grazing to reduce fuels and fires – does a light utilization level have an effect? (2/23/2016 – Bruegger et al. 2016)*
- *Conflicts and Plant Species Composition Relative to Prairie Dogs and Cattle (1/29/16 – Field et al. 2015)*
- *How Have Fire Regimes in Ponderosa Pine Forests Changed? (11/24/15 – Brown and Sieg 1999)*
- *Not Listed – Decision on Greater Sage-Grouse Listing Under the Endangered Species Act (9/22/2015 – DOI Sage-grouse decisions 2015)*

- *Can Small-Scale Range Improvement Practices Benefit Sage-Grouse? Results From a Long-Term Case Study in UT and WY* (9/8/2015 – Dahlgren et al. 2015)
- *Long-Term Trends in Sheep Growth and Wool Quality* (7/29/2015 – Burton et al. 2015)
- *Influence of Stocking Rates and Grazing Systems on Cattle Gains in Northern Mixed-Grass Prairie* (7/15/2015 – Derner et al. 2008)
- *Do Habitat Measurement Methods Matter?* (6/17/2015 – Thacker et al. 2015)
- *Grass Height and Sage-grouse Nest Survival in the Powder River Basin* (6/9/2015 - Doherty et al. 2014)
- *Livestock Grazing to Engineer Grassland Bird Habitat* (6/1/2015 - Derner et al. 2009)
- *Cattle Distribution May be Genetic: Lazy Cows vs. Active Cows* (5/21/2015 - Bailey et al. 2015)

#### WYOMING LIVESTOCK ROUNDUP NEWSPAPER – REGULAR COLUMN, INTERVIEW, ETC.

- June 2019, *Cow size questions*
- March 2019, *Leading the Industry: Scasta receives outstanding Young Range Professional Award*  
<https://issuu.com/wylr/docs/3.16.19>
- January 2019, *New rangeland analysis platform is revolutionizing rangeland monitoring*
- February 2018, *Status on wild horses in the west*
- May 2017, *New research reveals problems with vegetation sampling protocol for grass height and nest success with implications for sage-grouse*
- March 2017, *Prairie dogs, livestock, and forage research in the broader context* <http://www.wylr.net/the-roundup/archives/294-crops/research/6673-prairie-dogs-livestock-and-forage-research-in-the-broader-context>
- January 2017, *Wildfire and invasive plants – actual invasion or increase in visibility?*
- December 2016, *IPM for lice on range cattle* (joint with Scott Schell)
- November 2016, *Using Strategic Sheep Grazing to Reduce an Exotic and Invasive Legume.*  
<http://www.wylr.net/the-roundup/archives/215-management/grazing/6554-using-strategic-sheep-grazing-can-reduce-an-exotic-and-invasive-legume>
- August 2016, *Why Have Beef Cows Gotten So Big and What Does It Mean for Grazing Wyoming Rangeland?*
- June 2016, *Its Been a Lousy Year for Range Cattle – Got Lice?* <http://www.wylr.net/animal-health/6298-it-s-been-a-lousy-year-for-range-cattle-got-lice>
- March 2016, *How Low Can Rangeland Forage Go?* <http://www.wylr.net/crops/343-forages-grasses/6225-how-low-can-rangeland-forage-quality-go>
- January 2016, *Knowing Rangeland Plants is an Advantage for Ranchers*  
<http://www.wylr.net/management/215-grazing/6033-knowing-rangeland-plants-is-an-advantage-for-ranchers>
- September 2015, *Winter Nutrition Considerations for Livestock on Wyoming Rangeland*  
<http://www.wylr.net/guest-opinions/245-uw-staff/5799-considerations-necessary-for-winter-nutrition-on-rangelands>
- July 2015, *Greetings From Your New UW Extension Range Specialist and a New Blog*  
<http://www.wylr.net/guest-opinions/245-uw-staff/5678-greetings-from-your-new-range-specialist>

#### PODCASTS

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| 2022 | Art of Range Podcast. Episode 78: One Study to Rule Them All – 3M Soil Health Research with Jeff Goodwin and Derek Scasta. <a href="https://soundcloud.com/art-of-range/aor-078-goodwin-scasta">https://soundcloud.com/art-of-range/aor-078-goodwin-scasta</a> |
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#### NEWSPAPER/MAGAZINE/INTERNET

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| 2024 | <i>Wyoming Farm Bureau Hosts Cultivating Emerging Leaders Conference.</i> Wyoming Livestock Roundup. <a href="https://www.wylr.net/2024/02/09/wyfb-hosts-cultivating-emerging-leaders-conference/">https://www.wylr.net/2024/02/09/wyfb-hosts-cultivating-emerging-leaders-conference/</a> |
| 2023 | <i>UW Joins International Team Studying Rangeland Soil Health.</i> Written by Brook Ortel, WSGA Cow Country Magazine Winter edition  |
| 2023 | <a href="https://www.powelltribune.com/stories/university-of-wyoming-extension-releases-report-on-horn-fly-management-for-cattle.63256">https://www.powelltribune.com/stories/university-of-wyoming-extension-releases-report-on-horn-fly-management-for-cattle.63256</a>                  |
| 2023 | <a href="https://www.myvetcandy.com/newsblog/2023/1/11/study-details-impact-of-prairie-dog-plague-die-off-on-other-species">https://www.myvetcandy.com/newsblog/2023/1/11/study-details-impact-of-prairie-dog-plague-die-off-on-other-species</a>  |



- 2022 *A Case for a Smaller Cow*. Idaho Ag Proud. Interviewed and written by Julia McCarthy. <https://www.agproud.com/articles/56434-a-case-for-a-smaller-cow>
- 2022 <https://www.wylr.net/2021/12/17/sheep-grazing-targets-larkspur/>
- 2022 Controlled Burning: Introduction to Prescribed Fire. Fire Australia.
- 2021 *Scientists say Australian plan to cull up to 10,000 wild horses doesn't go far enough* (interview). Nature. <https://www.nature.com/articles/d41586-021-02977-7> (picked up by Greenreport.it in Italian; <https://greenreport.it/news/aree-protette-e-biodiversita/un-parco-australiano-vuole-eliminare-10-000-cavalli-selvatici-gli-scientziati-bisogna-eradicarli-tutti/>)
- 2020 *Report: Mustang Helicopter Roundups as Safe as Bait-Trapping*. The Horse. <https://thehorse.com/193708/report-mustang-helicopter-roundups-as-safe-as-bait-trapping/>
- 2020 *UW research targets horn fly scourge variable*. The Fence Post. <https://www.thefencepost.com/news/uw-research-targets-horn-fly-scurge-variables/>
- 2020 *University Of Wyoming Research May Help Ranchers Improve Production, Save Money*. Wyoming Public Radio. <https://www.wyomingpublicmedia.org/natural-resources-energy/2020-09-29/university-of-wyoming-research-may-help-ranchers-improve-production-save-money>
- 2020 *UW Extension publication details ways to reduce livestock loss due to poisonous plants*. Sheridan Media. <https://sheridanmedia.com/news/34411/uw-extension-publication-details-ways-to-reduce-livestock-loss-due-to-poisonous-plants/>
- 2019 *Wyoming Extension publishes irrigation ditch burning guide*. Cody Enterprise. [http://www.codyenterprise.com/news/people/article\\_4e698c34-0654-11ea-b7cb-134cc6cfc447.html](http://www.codyenterprise.com/news/people/article_4e698c34-0654-11ea-b7cb-134cc6cfc447.html)
- 2019 *Research, ranch applications part of Prescribed Fire Council conference*. Tri-State Livestock News. <https://www.tsln.com/news/asdasda-322/>
- 2019 Interview with Ula Chrobak about *A carbon-neutral burger? It's not impossible*. Popular Science. <https://www.popsci.com/carbon-neutral-beef-grass/>
- 2019 *Beef cows have been getting bigger, which has implications for Wyoming agriculture*. Barnyards and Backyards magazine (In Press)
- 2019 *Interior's 'Grand Experiment': An 11,000-Mile Wildfire Break Plan*. Interviewed by author Bobby McGill at Bloomberg Environment. <https://news.bloombergenvironment.com/environment-and-energy/interiors-grand-experiment-an-11-000-mile-wildfire-break-plan>
- 2019 *Press Release: Scasta receives Outstanding Young Range Professional Award from the Society for Range Management (SRM)*. Society for Range Management. <http://rangelands.org/wp-content/uploads/2019/03/2019-SRM-Honor-Awards-Press-Release-Outstanding-Young-Range-Professional-Derek-Scasta-FINAL.pdf>
- 2019 *Professional range organization recognizes UW Extension specialist*. Tri-State Livestock News. <https://www.tsln.com/news/professional-range-organization-recognizes-uw-extension-specialist/>
- 2019 *UW range team tops 26 universities to win Trail Boss Award*. The Sundance Times. <https://www.sundancetimes.com/story/2019/02/28/school/uw-range-team-tops-26-universities-to-win-trail-boss-award/541.html>
- 2019 *Producers struggle to regulate cow size*. The Fence Post. <https://www.thefencepost.com/news/producers-struggle-to-regulate-cow-size/>
- 2018 *Tracking Wild Horses: Technology addresses a rangeland Challenge*. Western Confluence. <http://www.westernconfluence.org/tracking-wild-horses/> (Authored by my PhD student Jacob Hennig highlighting our research on horses in the Red Desert of Wyoming)
- 2018 *Sharing Fences: Local knowledge guides research across public and private lands*. Western Confluence. <http://www.westernconfluence.org/sharing-fences/> (Co-authored by my MS student Lauren Connell highlighting our research in Wyoming's Thunder Basin)
- 2018 *Survey asks ranchers about predators*. Cody Enterprise. [http://www.codyenterprise.com/news/people/article\\_5fa622fc-41af-11e8-b3e7-b773f8e65d40.html](http://www.codyenterprise.com/news/people/article_5fa622fc-41af-11e8-b3e7-b773f8e65d40.html)
- 2018 *Matching cattle to climate*. Western Farmer-Stockman. <https://www.westernfarmerstockman.com/crops/matching-cattle-climate>
- 2018 *Important legislation guiding feral horse management in the west*. Rangelands Partnership February Newsletter.

- 2017 *For cows it isn't 'go big or go home'.* Beef Magazine. <http://www.beefmagazine.com/cow-calf/cows-it-isnt-go-big-or-go-home>
- 2017 *Smaller cows shine in Wyoming study.* Western Farmer-Stockman. <http://www.westernfarmerstockman.com/beef/smaller-cows-shine-wyoming-study>
- 2017 *Finding the 'sweet spot' in cow size.* Western Farmer-Stockman. <http://www.westernfarmerstockman.com/beef/finding-sweet-spot-cow-size>
- 2017 *Study that will track wild horses gets under way in Wyoming.* HorseTalk (New Zealand). <https://www.horsetalk.co.nz/2017/02/05/study-track-wild-horses-wyoming/>
- 2017 *Sixteen wild horses collared for study.* Gillette News Record. [http://www.gillettenewsrecord.com/news/wyoming/article\\_478d33aa-e364-5c9e-9f2d-373fb1ccb7a.html](http://www.gillettenewsrecord.com/news/wyoming/article_478d33aa-e364-5c9e-9f2d-373fb1ccb7a.html)
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- 2004 – 2011 I provided **264** news releases to four newspapers, including: Corsicana Daily Sun, Navarro County Times, Kerens Tribune, and Monahans News. News releases covered upcoming events, emerging issues and educational topics relevant to the residents.

#### UNIVERSITY PRESS RELEASES

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- 2020 *UW research targets horn fly scourge variable.*  
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- 2020 *UW Extension Rangeland Specialist Recognized with Early Career Award.*  
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- 2014 *UW Range Club Earns Regional Competition Honors*, December.  
<http://www.wyomingextension.org/news/2014/12/04/uw-range-club-earns-regional-competition-honors/>

**RADIO**

- 2021 Interview with Radio Canada regarding feral horses. <https://ici.radio-canada.ca/ohdio/premiere/emissions/les-annees-lumiere/episodes/582337/rattrapage-du-dimanche-7-novembre-2021/2>
- 2018 Interview with Australian Broadcasting Company (ABC) regarding feral horses.  
<https://soundcloud.com/doctormcdougall/derek-scasta-and-michael-adams-talk-brumbies-in-the-koskiusko-valley>
- 2016 Interview with Wyoming Public Radio regarding wildfires and fire restrictions in Wyoming.
- 2015 Interview on KNEB 960 AM/94.1 FM regarding the 2015 SRM meeting in Scottsbluff, NE and Lingle, WY.
- 2004 – 2011 Provided **358** radio broadcasts for two radio stations: KLBO 1330am (Monahans, TX) and KAND 1340am (Corsicana, TX). Broadcasts covered educational topics, emerging issues and informative updates.

**TELEVISION**

- 2015 RFD-TV Season 6 – Out On the Land, Thunder Basin Research Initiative, August  
<http://outontheland.com/season-6-episode-74-rangeland-research-in-tbng-in-wyoming/>
- 2012 OSU Sun-Up (Stillwater, OK) Burning and Horn Flies, October Feature Story  
<http://sunup.okstate.edu/category/seg/2012seg/102712-flies>
- 2006 KWES-TV (Odessa, TX) Silver Dollar Classic Livestock Show, November Interview
- 2006 KWES-TV (Odessa, TX) State Youth Water Camp, June Interview

**COUNTY EXTENSION NEWSLETTERS**

- Navarro County Agriculture Newsletter. 2007-2011.
- Ward County Range Steward Bi-Monthly Newsletter. 2005-2006.
- Ward County Agriculture & Horticulture Monthly Newsletter. 2004-2007.
- Ward County 4-H Monthly Newsletter. 10/2004-3/2007.

**SERVICE****MEMBERSHIP**

Southern Rockies Fire Science Network - Leadership Team - 2015-Present

Multistate Research and Information Exchange Groups

- WERA 40 *Application and Utility of the Ecological Site and Condition Concept for Monitoring Rangeland Ecological Status in the Western U.S.* – 2014 – Present; 2014 (Tucson, AZ)
- WERA 1008 *Rangelands West Partnership* – 2014 (Reno, NV), 2016 (Kona, HI), 2017 (Logan, UT), 2024 (Hilo, HI)
- W505 *Using Science Based Solutions in Conservation of Threatened and Endangered Species: Sage-Grouse Case Study* – 2015 (Park City, UT)
- W507 *Wild Horse & Burro Management* – 2018 (Logan, UT); 2024 (St. George, UT and co-coordinating with colleague at USU)
- *Ranching with Predators* – Extension Multistate Effort (2023 starting), *Participating and inviting UW Educators in Hot Springs (Stam) and Sublette (Montgomery) Counties*

Association for Fire Ecology (AFE) – 2011-Present

Society for Range Management (SRM), 2007-Present

Steering Committee for the journal *Rangelands*, 2016-Present

Wyoming Section (WYSSRM), 2014-Present

*Southeast Council Rep, 2018-Present*

*President-Elect (2020)*

*President (2021)*

*Oklahoma Section (OSSRM), 2011-2014*

*Texas Section (TSSRM), 2007-2014*

Natural Resource Ecology & Mgmt. Graduate Organization (NREM GSO), OSU, 2011-2014

International Association of Wildland Fire (IAWF) – 2012-2014

American Forage and Grassland Council (AFGC) – 2012-2014

American Scientific Affiliation (ASA) – 2012-2016

American Society for Animal Science (ASAS) – 2016

The Wildlife Society (TWS) – 2019/2020

Texas County Agriculture Agents Association (TCAAA), 2004-2011

**SERVICE AND LEADERSHIP**

NREM GSO, Secretary 2012/2013

NREM GSO, Departmental Faculty Meeting Representative Alternate 2012/2013

NREM GSO, Fundraising 2011

NREM GSO, Departmental Secretary Landscape Project 2012

TSSRM, Outstanding Rangeland Management Committee Member 2010, 2011

TSSRM, Youth Activities Committee Chairman 2008, 2009

TSSRM, Publication Awards Committee 2006

TSSRM, Youth Range Workshop Director 2006, 2007, 2008, 2009, 2010

OSSRM, Young Professionals Committee – 2012

WYSSRM, Southeast Council Rep – 2018-2019

Wyoming Prescribed Fire Council, Vice Chair – 2019 and 2020

National SRM 2013 Oklahoma Meeting Program Committee

National SRM 2013 Oklahoma Meeting Publicity Committee

National SRM Rangeland Ecology Session Moderator, Oklahoma City, OK 2013

National SRM Nominations Committee 2 Terms (2013-2015 and 2016-2018)

UW ESM Awards Committee (2018)

**EXTENSION COMMITTEE SERVICE****Wyoming**

Thunder Basin – Conservation Advisory Committee – 2020 – Present

UW Extension – Student Career Fair Representative – 2018, 2019

UW Sustainable Management of Rangeland Resources Initiative Team 2014 – Present

UW Collective Monitoring Issue Team 2014 – Present

UW AES Beef Unit Management Team 2014 – Present

UW AES Forage Management Team 2014 – Present



Thunder Basin Research Initiative – Conceptual and Proposal Guidance 2014  
 WSGA Range Service Team 2014 – Present  
 WERA 40 (Application and Utility of Ecological Site and Condition Concept for Monitoring Rangeland Ecological States in the Western US) – 2014 – Present; Secretary (2015), In-Coming Chair (2016)

### *Texas*

Navarro County Youth Exposition Plant ID Contest 2009 – 2011, *Superintendent*  
 Navarro County Youth Exposition Commercial Heifer Division 2007 – 2011, *Advisor*  
 Navarro County Exposition Center Board 2007 – 2011, *Secretary*  
 Navarro County Youth Exposition Judging Contests 2008 – 2011, *Coordinator*  
 Western Navarro County Quail Restoration Initiative Committee 2007-2011, *Member*  
 Central Appraisal District - Agriculture Advisory Committee 2007 – 2011, *Member*  
 District 8 Extension 4H Range Evaluation Contest Committee 2010-2011, *Member*  
 Navarro County Animal Issues Committee 2008 – 2011, *Chairman*  
 Blackland Income Growth Executive Board 2007-2011, *Member*  
 Holiday Classic Livestock Clinic: Lamb Committee 2007 – 2011, *Member*  
 District 8 Extension Crops, Forage and Horticulture Committee 2008, 2010, *Member*  
 District 8 Extension Information Technology Planning Group 2010, *Member*  
 Ward County Livestock Show Board 2004 – 2007, *Advisor*  
 Trinity Basin Conservation Foundation - Habitat Restoration Committee 2007, *Member*  
 USDA - FSA Ward/Winkler County Emergency Board 2004-2006, *Member*  
 District 6 Extension 4-H Range Evaluation Contest Committee 2005 – 2006, *Member*  
 District 6 Extension 4-H Range and Plant ID Contest Committee 2005 – 2006, *Member*  
 Ward County Animal Issues Planning Committee 2006 – 2007, *Chair*

### *FACULTY SEARCH COMMITTEES*

#### *Wyoming*

UW Department of Ecosystem Science and Management, Assistant Professor of Rangeland Science and Management (Member, 2023 – Ongoing)

UW Department of Ecosystem Science and Management, Rangeland Lecturer (Chair, 2023 – **Hired**)

UW College of Agriculture and Natural Resources, Associate Director/Lecturer for Ranch Management and Agricultural Leadership (RMAL) (Regular Member, 2022 – **Hired**)

UW Department of Animal Science, Assistant Professor for Livestock Systems, Precision Livestock Management, and Ranch Management and Agricultural Leadership (RMAL) (Regular Member, 2022 – **Hired**)

UW AES, LREC Beef Unit Manager (Regular Member, 2020 – **Hired**)

UW AES, LREC Farm Manager (Regular Member, 2020 – **Hired**)

UW Department of Veterinary Sciences and Wyoming State Veterinary Laboratory, Veterinary Anatomic Pathologist Assistant Clinical Professor (Outside Member, 2020 – **Hired**)

UW Department of Animal Science, Extension Beef Specialist (Outside Member, 2020 – **Hired**)

UW College of Agriculture and Natural Resources, Dean (Regular Member, 2018, **Hired**)

UW Department of Ecosystem Science and Management, Rangeland Herbivore Ecologist and Management (RHEM) Assistant Professor (Regular Departmental Member, 2018 – **Hired**)

UW Haub School of Environment and Natural Resources, Private Lands Management Fellow (External Member, 2<sup>nd</sup> Round only, 2017 – **Hired**)

UW Department of Veterinary Sciences and Wyoming State Veterinary Laboratory, Parasitologist Assistant Professor (External Member, 2 rounds, 2015-2016 –**Hired**)

UW Department of Ecosystem Science and Management, Wildland Watershed Management Assistant Professor (Regular Departmental Member, 2<sup>nd</sup> round only, 2015-2016 –**Cancelled**)

UW Department of Animal Science, Reproductive Physiologist Assistant Professor (External Member, 2016 –**Cancelled**)

UW Department of Plant Sciences and Agricultural Experiment Station – Sheridan, Crop Improvement Assistant Professor (External Member, 2016 –**Cancelled**)

#### *UNIVERSITY INITIATIVES FOR RANCH MANAGEMENT AND DEVELOPMENT*

##### *Ranch Management and Agricultural Leadership (RMAL)*

- 2022 Seminar series presenter and assistance organizing
  - Sheridan – Collaborations
  - Laramie – Technology
- Hiring committees for the RMAL Associate Director and ANSC Faculty
- Curriculum Committee

##### *Ranch Camp*

- 2021 @ Broadbent Ranch – Presenter for range management sections in the field (joint with Barton Stam)
- 2022 @ Broadbent Ranch – Presenter for range management sections in the field and development of grazing distribution game
- 2024 @ Padlock Ranch – Planning and assisting the team of Extension Educators

##### *McGuire Ranch Infrastructure Development and Instrumentation*

- Development of a 5,500 University ranch as a grazing research facility through internal and external funding
- Installation of 10 internal pastures through construction of ~ 11 miles of new fence (mean size of ~250 acres)
- Development of a new well to water 4 pastures at 2 new tanks
- Develop a pipeline from an existing well to water 4 pastures at 1 new tank
- Installation of soil water moisture sensors, CO<sub>2</sub> towers, baseline soil C sampling, and EOY/EKG monitoring

#### **AWARDS AND RECOGNITION**

2023	US Department of the Army – <i>Public Service Commendation Medal</i>
2022	Wyoming Stock Growers Association – <i>Outstanding Range Professional Award</i>
2019	University of Wyoming, College of Agriculture and Natural Resources, Agricultural Experiment Station 2020 <i>Early Career Research Achievement Award</i>
2019	Society for Range Management – <i>Outstanding Young Range Professional Award</i>
2018	University of Wyoming, College of Agriculture and Natural Resources, <i>Lawrence Meeboer Agricultural Teaching Award</i>
2018	Gamma Sigma Delta – Wyoming Chapter, Nominated and Inducted as <i>Member</i>
2017	University of Wyoming, Agricultural Experiment Station, <i>Student Paper Winner</i> , J. Windh, J.D. Scasta (Advisor), and B. Stam. <i>Dead lambs aren't the only loss: Counting the non-lethal cost of Wyoming livestock-predator interactions.</i>
2016	University of Wyoming, College of Agriculture and Natural Resources, <i>Outstanding Advisor Award Recipient</i>
2016	University of Wyoming, Center for Global Studies, <i>Faculty International Research Fellow</i>
2013	Society for Range Management, <i>Graduate Student Scientific Poster Competition, PhD Level. First Place</i> , “Combustion dynamics of cattle fecal pats”
2013	Oklahoma City Convention and Visitors Bureau, <i>Hometown Heroes Team Award</i> , to the 2013 SRM Planning Committee
2012 - 2013	Oklahoma State University, <i>Williams Distinguished Graduate Fellowship</i>
2012	NREM 5793 Advanced Prescribed Fire, ‘Pyro of the Year’ Graduate Student

- 2012 Society for Range Management, *Graduate Student Oral Paper Competition, PhD Level. First Place*, “Impact of patch-burn grazing management on fly pressure on range cattle in the Great Plains”
- 2011 National Association for County Agriculture Agents, *Search for Excellence in Livestock Production Texas State Award Winner, Southern Regional Winner and Top Three National Finalist*, “Beef Cattle Education in Navarro County”.
- 2011 - 2013 Oklahoma State University, *Sitlington Enriched Graduate Scholarship*
- 2011 Navarro County Youth Exposition, *Distinguished Service Award*
- 2011 Society for Range Management, *Excellence in Rangeland Management Poster Contest Winner* (Submitted by Scasta and Goodwin), Billings, Montana.
- 2009 Texas AgriLife Extension Service, *Superior Service Award Volunteerism*
- 2009 District 8 Texas County Agriculture Agents Association, *Early Career Agent Achievement Award*
- 2009 Texas Section Society for Range Management, *Photography Award, 1<sup>st</sup> Place*, Livestock Black and White Photo
- 2008 Texas Section Society for Range Management, *County Level Award, County Extension Agent*
- 2008 National Association for County Agriculture Agents – *National Communication Awards, Southern Regional Finalist, Newsletter by Individual* for the “Navarro County Beef & Forage News”
- 2007 USDA-CSREES National Water Program Award - *Outstanding Integrated Activities for Water Resources for participation in the Rio Grande Basin Initiative (RGBI Team Award)*
- 2005 - 2006 Texas Tech University, *Harold and Mary Dregne Graduate Fellowship*

### **TEACHING/ADVISING/MENTORING**

*UNIVERSITY OF WYOMING (organized by class level and then temporally)*

#### **Teaching**

**Wyoming Wildlands: Science and Stewardship.** RNEW 1000, 3 credit hours

*Fall 2018* - 32 Undergraduate Students

*This course was designed by a cohort of ESM faculty to introduce undergraduates to our department and concepts associated with the science and stewardship of wildlands in Wyoming. I lectured on plant communities and ecoregions, drought, fire and grazing/browsing (6 lectures; 2 weeks).*

**Range Judging.** REWM 3390, 2 credit hours

*Spring 2015* – 5 Undergraduate Students

*Fall 2015* – 1 Undergraduate Student

*Fall 2016* – 2 Undergraduate Students

*Spring 2018* – 1 Undergraduate Student

*Fall 2023* – 1 Undergraduate Student

*I supervise enrolled students in preparing for the Undergraduate Range Management Exam (URME) contests at the Wyoming SRM Section Contest and the International SRM Contest. I also coordinated a field trip to the Sims Ranch in McFadden, WY in 2015 and had students complete a one-page essay based on their experience as part of the course.*

**Poisonous Plants and Plant Toxins.** REWM 4000, 3 credits

*Spring 2021* – 27 total students (25 undergraduate and 2 graduate)

*Spring 2022* – 23 total students (23 undergraduate)

*Spring 2023* – 12 total students (10 undergraduate and 2 graduate)

*Spring 2024* – 13 total students (10 undergraduate and 3 graduate)

*This course was redesigned in the Spring of 2021 due to the previous instructor leaving. This course now emphasizes plant identification, animal responses, and mitigation strategies for poisonous plants in the western United States.*

**Problems, Rangeland Grazing Nutrition.** REWM 4540, 4 credits

*Fall 2017* – 1 Undergraduate Student

*This was a specifically designed course for an ANSC undergraduate major/REWM minor student that could not take REWM 3020 'Nutritional Management of Grazing Ungulates' due to faculty retirement and that required course not being offered. This was offered per exception request at the students request to graduate on time and with the approval of the ESM Department Head.*

**Range Management Internship, Diamond H Ranch.** REWM 4550, 3 credit hours

**Fall 2015** – 1 Undergraduate Student

*This was a ranch internship course specifically designed for Lisa Zetas (undergraduate student).*

**Range Management Internship, Problems in Human Dimensions of Range Mgmt.** REWM 4550, 2 credits

**Spring 2016** – 1 Undergraduate Student

*This was an internship course specifically designed for Kelsey Welter (undergraduate student) who was working for me on a Wyoming Open Spaces Initiative Grant, titled "Do agricultural and environmental interest groups assign disparate values to Wyoming's Open Spaces?"*

**Range Management Internship, Rangeland Research and Monitoring.** REWM 4550, 1 credit

**Summer 2016** – 1 Undergraduate Student

*This was an internship course specifically designed for Justin White (undergraduate student) who was working for me in the Thunder Basin doing vegetation sampling for a graduate student.*

**Undergraduate Research, Vegetation Monitoring and Assessment.** REWM 4800, 1 credit

**Spring 2017** – 1 Undergraduate Student

*This was a specially designed course for a student that had lab scheduling conflicts and was offered per exception request at the students request to graduate on time and with the approval of the ESM Department Head.*

**Nutritional Ecology and Management of Rangeland Herbivores.** REWM 4100/5100, 3 credits (co-taught with Dr. Jeff Beck)

**Spring 2018** – 28 total students (25 undergraduate and 3 graduate)

**Spring 2019** – 28 total students (18 undergraduate and 10 graduate)

*Nutritional Ecology and Management of Rangeland Herbivores is a required course for undergraduates majoring or minoring in Rangeland Ecology and Watershed Management and an important option for graduate students in several other disciplines. Course will examine ecological processes and management of nutritional resources by domestic and wild rangeland herbivores. Topics includes nutrient availability, nutritional demand, foraging behavior, diet composition, grazing systems, stocking rates, livestock/wildlife competition, predation, parasitism, plant toxicity, and influences on ecological condition. Students evaluate case studies and analyze nutritional data using current technologies.*

**Applied Fire Ecology.** REWM 4440/5440, 3 credits

**Spring 2017** – 20 total students (13 undergraduate and 7 graduate)

**Spring 2018** – 16 total students (10 undergraduate and 6 graduate)

**Spring 2019** – 15 total students (8 undergraduate and 7 graduate)

**Spring 2020** – 21 total students (11 undergraduate and 10 graduate)

**Spring 2021** – 25 total students (21 undergraduate and 4 graduate)

**Spring 2022** – 19 total students (16 undergraduate and 3 graduate)

**Spring 2023** – 15 total students (12 undergraduate and 3 graduate)

*Fire is a formative process in western ecosystems. The compositional and structural patterns of rangelands and forested lands in Wyoming and beyond are as influenced by fire as they are geology, soils, and climate. Given the projections for increasingly larger wildfires, longer wildfire seasons, accumulating dead fuel loads from epidemics like bark beetle, and the potential socio-economic effects of fire, it is critical that our future natural resource managers have the opportunity to learn about applied fire ecology and management. This course will enhance the employment opportunities of graduates and provide them with relevant skills for managing ecosystems affected by fire.*

**Investigation, Habitat Management.** REWM 5640, 2 credit hours

**Fall 2015** – 1 Graduate Student

*This is an investigation course designed specifically for Leanne Connell (M.S. student). We will review the literature for the effects of habitat management and monitoring protocols for wildlife habitat in western North America.*

**Investigation, Extension and Outreach.** REWM 5640, 2 credit hours

*Spring 2016* – 2 Graduate Student

*This is an investigation course designed specifically for Leanne Connell (M.S. student) and Courtney Duchardt (Ph.D. student). We reviewed writing and developing resources for non-technical audiences.*

**Investigation, Multivariate Statistics.** REWM 5640

*Fall 2016* – 2 Graduate Students (2 credit hours)

*Spring 2018* – 3 Graduate Students (3 credit hours)

*This investigation course was designed specifically for two of my graduate students (Tamarah Plechaty and Lauren Connell) who both have community ecology data at the species level. The intent of the course was to have the students work with their data in a systematic and planned schedule using the same software that I use. We covered community ecology, data organization, ordination techniques, species richness, species diversity, variance, alpha beta gamma diversity, dissimilarity, indices of species diversity and community similarity, multiple regression, PCA, DCA, CCA, NMDS, permutation tests, and variance partitioning. We used CANOCO 5 software and R.*

**Investigation, Wild Horse Ecology.** REWM 5640, 3 credits

*Spring 2017* – 1 Graduate Student

*This investigation was designed specifically for my Ph.D. graduate student (Jacob Hennig) who is studying wild horse ecology. During this semester he was actively working with BLM Wild Horse Specialists in the field to bait trap and place GPS collars on horses in southern Wyoming.*

**Investigation, Toxic Plants.** REWM 5640, 3 credits

*Spring 2022* – 2 Graduate Students

*This investigation was designed specifically for 2 graduate students studying toxic plants and is based on REWM 4000 Poisonous Plants which emphasizes plant identification, animal responses, and mitigation strategies for poisonous plants in the western United States.*

**Continuous Registration, Off Campus.** REWM 5940, Variable credits

*Fall 2016* – 1 Graduate Student (1 credit hour)

*This is standard credit hours available to graduate students to maintain continuous enrollment while completing their thesis project.*

**Thesis Research.** REWM 5960, variable credits

*Summer 2016* – 3 Graduate Students (1, 1, and 2 credit hours respectively)

*Fall 2016* – 3 Graduate Students (3 credit hours)

*Spring 2017* – 1 Graduate Student (6 credit hours)

*Summer 2017* – 4 Graduate Students (1 credit hour)

*Fall 2017* – 4 Graduate Students (1, 3, 3, and 5 credit hours respectively)

*Spring 2018* – 2 Graduate Students (6 credit hours)

*Summer 2018* – 2 Graduate Students (1 credit hour)

*Fall 2018* – 4 Graduate Students (1, 2, 3, and 9 credit hours respectively)

*Spring 2019* – 4 Graduate Students (3, 3, 6 and 9 credit hours respectively)

*Summer 2019* – 3 Graduate Students

*Fall 2019* – (1 Graduate Student)

*Spring 2020* – (1 Graduate Student)

*Summer 2020* – (2 Graduate Students)

*Fall 2020* – (1 Graduate Student)

*Spring 2021* – (3 Graduate Students)

*Summer 2021* – (3 Graduate Students)

*Fall 2021* – (4 Graduate Students)

*Spring 2022* – (2 Graduate Students)

*Fall 2022* – (2 Graduate Students)

*Standard credit hours available to M.S. graduate students to receive credit for their thesis research.*

**Dissertation Research.** REWM 5980, variable credits

*Fall 2016* – 1 Graduate Student (2 credit hours)

*Fall 2016* – 3 Graduate Students (3 credit hours)

*Spring 2017* – 2 Graduate Students (3 and 5 credit hours respectively)

*Summer 2017* – 2 Graduate Students (1 credit hour)

*Fall 2017* – 2 Graduate Students (2 and 6 credit hours respectively)

*Spring 2018* – 2 Graduate Students (3 credit hours)

*Summer 2018* – 2 Graduate Students (1 credit hour)

*Fall 2018* – 3 Graduate Students (3, 5, and 9 credit hours respectively)

*Spring 2019* – 3 Graduate Students (6 and 9 credit hours respectively)

*Spring 2021* – 2 Graduate Students (1 credit hour)

*Fall 2021* – 1 Graduate Student

*Spring 2022* – 2 Graduate Students

*Fall 2022* – 3 Graduate Students

*Fall 2023* – 1 Graduate Students

*Standard credit hours available to Ph.D. graduate students to receive credit for their dissertation research*

Undergraduate Student Advising

**Range Club Advisor** – April 2015 to 2023

- SRM Collegiate Trail Boss Award for the UW Range Club at the 2019 SRM International Meeting (MN)

**Undergraduate Range Management Exam (URME) Coach** – 2015 to 2021

*International Competition*

- 5<sup>th</sup> Place out of 18 Universities/Colleges at the 2021 SRM International Contest – Albuquerque, NM
- 4<sup>th</sup> Place out of 25 Universities/Colleges at the 2020 SRM International Contest – Denver, CO.
- 6<sup>th</sup> Place out of 26 Universities/Colleges at the 2019 SRM International Contest – Minneapolis, MN.
- 8<sup>th</sup> Place out of 25 Universities/Colleges at the 2018 SRM International Contest – Reno, NV.
- 8<sup>th</sup> Place out of 25 Universities/Colleges at the 2017 SRM International Contest – St. George, UT.
- 5<sup>th</sup> Place out of 24 Universities/Colleges at the 2016 SRM International Contest – Corpus Christ, TX.
- 3<sup>rd</sup> Place out of 25 Universities/Colleges at the 2015 SRM International Contest – Sacramento, CA.

*State Competition*

- 1<sup>st</sup> Place out of 3 Universities/Colleges at the 2019 WY-SRM Contest – Cheyenne, WY.
- 1<sup>st</sup> Place out of 3 Universities/Colleges at the 2018 WY-SRM Contest – Sheridan, WY.
- 1<sup>st</sup> Place out of 2 Universities/Colleges at the 2017 WY-SRM Contest – Green River, WY.
- 1<sup>st</sup> Place out of 3 Universities/Colleges at the 2016 WY-SRM Contest – Cody, WY.
- 1<sup>st</sup> Place out of 2 Universities/Colleges at the 2015 WY-SRM Contest – Laramie, WY
- 1<sup>st</sup> Place out of 4 Universities/Colleges at the 2014 WY-SRM Section Contest – Evanston, WY.

Doctoral (Ph.D. Students) – Graduated – 4 Total

**Fernando Furquim, 2017-2023. Ph.D., Botany, Universidade Federal do Rio Grande do Sul, Botanical aspects of fire and grazing in North and South America.** Jointly advised with Dr. Gerhard Overbeck - UFRGS. Currently working as an Agricultural Extension Consultant for the Rio Grande do Sul state government for EMATER.

**Ryan Wilbur, 2018-2023. Ph.D., ESM, UW, Human dimensions of prescribed fire and natural resource management.** Working as a Field Project Manager for People and Carnivores serving northwest Montana.

**Jacob Hennig, 2016-2021. Ph.D., ESM, UW, Movement, habitat selection, and effects of feral horses in cold-arid-steppe..** Jointly advised with Dr. Jeff Beck – UW. Currently working as a contract research scientists for USGS out of Fort Collins, CO with Dr. Kate Schoenecker's group.

- 2018 - UW ESM Society for Range Management Graduate Scholarship 2018
- 2019 - International Wild Equid Conference award for Best Oral Communication By Students

**Timm Gergeni, 2017-2021. Ph.D., ESM, UW, Semi-arid rangeland soil health, forage, and grazing: quantifying linkages with a bottom-up ranch-scale assessment, top-down grazing experiment, and global systematic review.** Currently working as a contract research scientist for Dr. John Tanaka and Dr. Kristie Mazcko for the Sustainable Rangelands Roundtable out of Laramie, WY.

Master (M.S. Students) – Graduated – 11 Total

**Hannah Fraley, 2020-2023 M.S., ESM, UW,** *Multispecies grazing of larkspur to mitigate toxicity. Jointly Advised with Dr. Whit Stewart. Currently working for Grouse Mountain Environmental Consultants in Buffalo, WY.*

- Recipient of the Jim and Marian Berger Scholarship (2021/2022 Academic Year)
- Selected to present to WY Legislature in February 2023

**Nathan Wade, 2022., ESM, UW,** *Fire ecology of saline greasewood ecological sites. Jointly Advised with Dr. Lance Vermeire (USDA ARS – Miles City, MT). Accepted a position with Dr. Becky Kerns with the US Forest Service, Pacific Northwest Research Station in Corvallis, OR as a research technician.*

**Ryan Benjamin, 2021. M.S., ESM, UW,** *Public lands grazing monitoring in the Bighorn mountains and Upper Green of Wyoming. Currently working as an Extension Beef Systems Educator with the University of Nebraska in Cherry County, NE – the largest cow-calf county in the nation.*

**Katie Estep, 2020. M.S., ESM, UW,** *Effects of fire in a sagebrush-grassland ecotone. Co-advised by Dr. Lauren Porensky. Currently working for the USDA-ARS in Fort Collins, CO.*

**Craig Calkins, 2020. M.S., ESM, UW,** *Bovine hematology and parasitology in high-elevation rangeland environments: Advanced applications to enhance animal health. Currently working for the US Department of Defense, Army Veterinary Corps at Fort Leavenworth, Kansas.*

- As a Major in the Army Veterinary Corp, Craig was funded by a LTHET or Long-Term Health and Education Training (LTHET) award.

**Bryce Lidtka, 2019. M.S., ESM, UW,** *Rangeland economics and ranching implications of soil health. Jointly advised with Dr. John Tanaka – UW. Currently working as the Watershed Project Coordinator at the Iowa Department of Agriculture and Land Stewardship.*

**Colleen Friday, 2019. M.S., ESM, UW,** *Enhanced ecological vegetation inventory of high-elevation basins in the Wind River Indian Reservation to link native American culture with the rangeland resource. Currently working as the Wind River Conservation Organizer for the Greater Yellowstone Coalition.*

- Awarded UW Academic Affairs Under Represented Domestic Minorities (URDM) Graduate Assistantship 2016-2018
- Awarded Chief Washakie Scholarship 2016/2017
- Awarded Northern Arapaho Endowment Scholarship 2016/2017

**Bryn Marah, 2018. M.S., ESM, UW,** *Comparison of risks and effects of vegetation treatments across two forests in Colorado and Wyoming. Currently working for the US Forest Service (GMUG - Colorado).*

- Awarded the TREE (Travel, Research, and Educational Experience) Grant for the 2018 Fire Continuum Conference hosted by the Association for Fire Ecology and the International Association of Wildland Fire in Missoula, Montana 2018

**Lauren Connell, 2018. M.S., ESM, UW,** *Quantifying ecological dynamics and herbivore impacts in the Thunder Basin of Wyoming. Jointly advised with Dr. Lauren Porensky – USDA ARS. Currently working for the Bird Conservancy of the Rockies (Colorado).*

- Awarded the Mary Mead Graduate Fellowship for Women in Agriculture Award 2016/2017
- Awarded the UW ESM SRM Graduate Scholarship 2016/2017
- Featured on Wyoming Public Radio <http://wyomingpublicmedia.org/post/prairie-dog-whisperer-experiments-telling-colonies-hey-time-move>
- 1<sup>st</sup> Place MS Graduate Student Poster at the Wyoming TWS/SRM Conference 2016

**Tami Plechaty, 2018. M.S., ESM, UW,** *Grazing ecology, animal performance, and diet composition using DNA sequencing in the mixed grass prairie of Wyoming and shortgrass steppe of Colorado. Jointly advised with Dr. Justin Derner – USDA ARS. Worked for the Great Basin Institute (California/Nevada), Jonah Ventures (Boulder, CO) and now for USDA-ARS in Cheyenne, WY.*

- Received WSARE Graduate Student Grant Award 2016

**Leanne Correll, 2016. M.S. - Plan B, ESM, UW,** *Advancing landowner tools for use with the greater-sage grouse umbrella conservation agreement with assurances (CCAA) for Wyoming Ranch Management. Worked as a private consultant (Wyoming) and then for the Saratoga-Encampment-Rawlins Conservation District in Saratoga, WY.*

Graduate Student Advising/Co-Advising – In Progress – 6 Total

**Ben Hollinger, Spring 2024 Start, M.S., ESM, UW,** *Beef cow management on high-elevation rangeland.*

**Katie White, Spring 2024 Start, M.S., ESM, UW,** *Evaluating the effects of sheep grazing systems on plant communities in the Intermountain West.*

**Daniel Reynolds, Fall 2023 Start, M.S., ESM, UW,** *Assessing effectiveness of big-game migration-friendly fence designs.*

*Nicole Nimlos, Spring 2023 Start, Ph.D., ESM, UW, Human dimensions of adaptive grazing.*

*Amanda Norton, Spring 2023 Start, Ph.D., ESM, UW, Ecosystem responses to adaptive grazing.*

*Craig Calkins, 2020-Present, Ph.D., ESM, UW, Quantifying animal physiology and environmental influences on external parasites of cattle and sheep in Wyoming.*

**Graduate Student Committee Member Only – 40 Total**

*Abbi Rodgers, 2023 - ESM*

*Tanner Hoffman, 2023 - ESM*

*Jenny Hanson, 2023 - ESM*

*Bryson Mills, 2023 – Animal Science*

*Aaron Kersh, ongoing – Animal Science*

*Dyllan ongoing – Animal Science*

*McKenna McNeil, ongoing – Animal Science*

*Clara Ritchie, 2021 to Present, M.S. Meat Science, UW, Fatty acid profiles and carcass traits of lambs. Advisor: Dr. Cody Gifford*

*Erik Versluijs, 2021 to Present, Ph.D. Applied Ecology, Inland Norway University of Applied Sciences, Cattle movement and behaviour response to carnivores in Norwegian forests. Advisor: Dr. Barbara Zimmerman*

*Courtney Newman, 2021-Present, M.S. Animal Science, UW, Blockchain technology development for the sheep industry. Co-Advisor: Dr. Cody Gifford and Dr. Whit Stewart*

*Joshua Ajowele, 2021-Present, Ph.D. Ecosystem Science and Management, UW, Ecosystem effects of patch burn grazing (PBG) management in tallgrass prairie. Advisor: Dr. Kevin Wilcox*

*Madison Shults, 2021-Present, M.S. Animal Science, UW, Role of maternal reproductive tract colonization and rumen microbiome development in progeny. Advisor: Dr. Hannah Cunningham-Hollinger*

*Shanan Davey, 2021-Present, M.S. Animal Science, UW, Divergence in PAP association with blood and rumen microbiome in bulls and heifers. Advisors: Dr. Hannah Cunningham-Hollinger and Dr. Scott Lake*

*Alexandra Howell, 2021-Present, Ph.D. Mechanical Engineering, UW, Char formation and pyrogenic carbon (PyC) production in lodgepole pine forest fuels during wildfire. Advisor: Dr. Erica Belmont*

*Claire Visconti, 2021-2022, M.S. Plant Science, UW, Invasive plants in slash burn piles at Rocky Mountain National Park. Advisor: Dr. Andrew Kniss*

*Luke Patrick McLaughlin, 2021-Present Ph.D. Mechanical Engineering, UW, Fuel mass and aerosol emissions from pyrolysis. Advisor: Dr. Erica Belmont*

*Victoria Anderson, 2021-2022 M.S. Agricultural and Applied Economics/Environment and Natural Resources, UW, Negotiation of wolf reintroduction in Colorado. Advisor: Dr. Steve Smutko*

*Brittany Wagler, 2021-Present M.S. Zoology and Physiology, UW, Bighorn sheep disease and home range relative to resource quality. Advisor: Dr. Kevin Monteith*

*Megan McCabe, 2020-Present M.S. Atmospheric Sciences, UW, Methane, ammonia, and ethane emissions from northeastern Colorado feedlots. Advisor: Dr. Dana Caulton.*

*Averi Reynolds (Hales), 2020-Present M.S. Animal Science, UW, Influence on cattle genetic background on behavior, diet, and performance. Advisor: Dr. Steve Paisley.*

*Courtney Buchanan, 2019-Present M.S., ESM, UW, Feral horse microbiome. Advisor: Dr. Jeff Beck.*

*Casey Reimler, 2019-2020. M.S. – Plan B, Animal Science, UW, Ponderosa pine induced abortions in cattle. Advisor: Dr. Paul Ludden.*

*Hannah Kuhns, 2019-2021. M.S., Plant Science, UW, Integrated management of leafy spurge. Advisor: Dr. Dan Tekeila.*

*Cory Ott, 2019-2020. M.S., Geology and Geophysics, UW, Computer simulation modeling of wildfires. Advisor: Dr. Thomas Minkley.*

*Chad Page, 2018-2020. Ph.D., Animal Science, UW, Sheep nutrient supplementation and performance. Dr. Whit Stewart.*

*Alexis Julian, 2018-2020. M.S. Animal Science, UW, Range nutrition for sheep in winter. Dr. Whit Stewart.*

*Taylor Bush, 2018-2020. M.S., ESM UW, Integrating cover crops and livestock into irrigated cropping systems. Advisor: Jay Norton.*

*Jonathan Lautenbach, 2017-Present. Ph.D., ESM, UW, Greater sage-grouse response to habitat treatments. Advisor: Dr. Jeff Beck.*

*Kelly Carpenter, 2017-2019. Ph.D., Animal Science, UW, Ecological and production characteristics of the ARS Sheep Research Station in Dubois, ID. Advisor: Dr. Scott Lake.*

*Michael Curran, 2016-2020. Ph.D., ESM, UW, Oil and gas pad reclamation. Advisor: Dr. Pete Stahl.*



**Anna Collins, 2016-2019. M.S., ESM, UW, Demographics, motivations, and experiences of producers participating in the Environmental Quality Incentives Program and the Conservation Stewardship Program.** Advisor: Dr. John Tanaka.

**Stephanie Winters, 2017-2019. M.S., ESM, UW, Linking soil ecology with the restoration of ponderosa pine forests following a high-severity wildfire in the Laramie Mountains of Wyoming.** Advisor: Dr. Linda van Diepen.

**Emily Bean, 2017-2019. M.S., ESM, UW, The critical role of soil microbiota to sustainable agriculture: Quantifying short-term microbial and vegetation responses to intensive grazing.** Advisor: Dr. Linda van Diepen.

**Micheline Meinzer, 2016-2018. M.S., Veterinary Science, UW, Effects of climate variables and maternal antibodies on the natural transmission of bluetongue virus in range-pastured beef cattle.** Advisor: Dr. Myrna Miller.

**Josh Leonard, 2016-2018. Ph.D. ESM, UW, Sage-grouse response to vegetation treatments (Resigned prior to finishing).** Advisor: Dr. Jeff Beck.

**Jason Levan, 2015-2018. M.S., ESM, UW, Habitat selection and short-term demographic response of greater sage-grouse to habitat treatments in Wyoming big sagebrush.** Advisor: Dr. Jeff Beck.

**James Vance, 2015-2016. M.S., ESM, UW, Emulated natural disturbance as habitat restoration for the Wyoming toad (*Anaxyrus baxteri*).** Advisor: Dr. Melanie Murphy.

**Phillip Lavalley, Jr. 2014-2015. M.S., ESM, UW, Survey of public land ranchers for ecosystem services. (Resigned prior to finishing).** Advisor: Dr. John Tanaka.

**Brianne Nichole Lind. 2014-2016. M.S., ESM, UW, National survey of public land ranchers.** Advisor: Dr. John Tanaka.

**Adele Reinking. 2014-2017. M.S., ESM, UW, Demography of pronghorn in the Red Desert.** Advisor: Dr. Jeff Beck.

#### International Sponsorship/Collaborations

**Erik Versluijs**, PhD student in Applied Ecology at the Inland Norway University of Applied Sciences; dissertation support and hosted in Laramie in October 2022

**Dr. Jen Beverly/Dr. Sonja Leverkus**, Wildfire Analytics Laboratory at University of Alberta; sharing of ideas and research needs

**Dr. Alexandra Knight**, Lecturer in Environmental Management, Charles Sturt University; wild horses; international discussions of social dynamics in the US and Australia relative to horses

**Bonny Mealand**, Private Researcher, Zimbabwe; zebras; discussion of comparisons of different equids in Africa and North America

**Emma den Hartog**, MS student at the Inland Norway University of Applied Sciences; predators; thesis support for North America survey efforts regarding livestock losses to carnivores.

**Dr. Barbara Zimmermann**, Faculty of Applied Ecology, Agricultural Sciences and Biotechnology, Inland Norway University of Applied Sciences. Coordinating as a partner for the following proposal: “Grazing the carnivore forests for sustainable production of food, timber and biodiversity”, funded December 2019 by Inland Norway University of Applied Sciences INN to the MILJØFORSK-call of the Research Council of Norway.

**Dr. Michael Adams**, Wollongong, Australia. Professor at the University of Wollongong. Coordinated meetings in 2018 with various feral horse stakeholders.

**Robb Gibbs**, Jindabyne, Australia. KNP Wild Horse Management for the Southern Ranges Branch for the National Parks and Wildlife Service in New South Wales. Coordinated a trip to Kosciuszko National Park in 2018 to discuss feral horse management and ecology.

**New Zealand Department of Conservation**, including Bill Fleury and Amelia Willis. Coordinated a trip to New Zealand for the 2018 feral horse muster on the Waiuru Army Base.

**Dr. Stephen Hartley**, Wellington, New Zealand. Professor at the University of Victoria in Wellington, NZ. Coordinated a guest lecture to the Ecology and Evolution Seminar Series in 2018.

**Dr. Sonja Leverkus**, Fort Nelson, British Columbia, Canada. Private consultant working on fire and grazing. Coordinated on the publication of a manuscript about free-roaming horses in northern Canada and working on prescribed fire and wildfire projects.

**Fernando Furquim**, Brazil, J-1 Visa (2017-2019). Ph.D. student at the Universidade Federal do Rio Grande do Sul in the Laboratory of Grassland Vegetation and Department of Botany that I am formally co-advising with Dr. Gerhard Overbeck. Fernando is expected to conduct grazing, fire, and vegetation research at the Heart Mountain Ranch Preserve near Cody, WY and in southern Brazil.

**Dr. Gerhard Overbeck** Ph.D., Brazil. Visiting vegetation ecologist in the southern state of Brazil and a faculty member at the Universidade Federal do Rio Grande do Sul in the Laboratory of Grassland Vegetation and Department of Botany, Summer 2017.

**Savanna Eidse**, University of Winnipeg, Canada, J-1 Visa, Vegetation Research Technician in Thunder Basin, Joint with Thunder Basin Grassland Prairie Ecosystem Association, Summer 2016.

#### GUEST LECTURES AND SEMINARS

##### University of Wyoming

2023 (Sum)	<i>Coordination of field botany inventory of the UW McGuire Ranch.</i> BOTN 4640 Flora of the Rocky Mountains
2023 (F)	<i>Host-parasite dynamics of horn flies on cattle in Wyoming.</i> PATB 4110 Diseases of Food Animals
2023 (S)	<i>UW McGuire Ranch plant communities and carbon sampling tour.</i> REWM 2400 Rangeland Plants and Regions
2023 (S)	<i>Wild horse ecology and management.</i> ESS 4950: Exploring Earth Systems
2023 (S)	<i>Ranch grazing planning.</i> ANSC 4220 Advanced Beef Production and Management
2023 (S)	<i>Ecology and management of wild horses.</i> ANSC Course Number and Title?
2022 (F)	<i>Sustainable range management and soil health.</i> AECL 1000 Agroecology
2022 (F)	<i>Host-parasite dynamics of horn flies on cattle in Wyoming.</i> PATB 4110 Diseases of Food Animals
2021 (F)	<i>Host-parasite dynamics of horn flies on cattle in Wyoming.</i> PATB 5515 Pathobiology Graduate Seminar
2021 (S)	<i>Does cow size matter for Wyoming rangelands.</i> ANSC 4630 Topics and Issues in Animal Science
2021 (S)	<i>Grazing and range management.</i> ANSC 4220 Advanced Beef Production
2019 (S)	<i>Prescribed fire planning and application.</i> REWM 4850 Rangeland Vegetation Management Techniques.
2019 (S)	<i>Dynamic rangeland management principles and wild horse research in Wyoming.</i> AECL 4990 Agroecology Seminar.
2018 (S)	<i>Needs of grazing/browsing animals and range management.</i> REWM 2000 Principles of Rangeland Management.
2018 (S)	<i>Dynamic rangeland management principles and wild horse research in Wyoming.</i> AECL 4990 Agroecology Seminar.
2018 (S)	<i>Prescribed fire planning and application.</i> REWM 4850 Rangeland Vegetation Management Techniques.
2018 (S)	<i>How to manage ecosystems for livestock and wildlife.</i> ANSC 4630 Topics and Issues in Animal Science.
2017 (F)	<i>Fire effects in Wyoming and technology for fire planning and modeling.</i> REWM 4330 Rangeland Ecosystem Assessment and Monitoring.
2017 (S)	<i>Wild horse ecology and issues.</i> ANSC 4630 Topics and Issues in Animal Science.
2017 (S)	<i>Prescribed fire planning and application.</i> REWM 4850 Rangeland Vegetation Management Techniques.
2017 (S)	<i>Dynamic rangeland management principles and research in Wyoming.</i> AECL 4990 Agroecology Seminar.
2017 (S)	<i>Rangeland management and range sheep Research/Extension in Wyoming.</i> ANSC 4230 Advanced Sheep Production Management.
2016 (F)	<i>Interpreting Fire Characteristic Charts and BehavePlus outputs.</i> REWM 4330 Rangeland Ecosystem Assessment and Monitoring.
2016 (F)	<i>BehavePlus 5.0.5 Fire Modeling Software to predict fire behavior and fire effects in Wyoming forest/grass/shrub complexes.</i> REWM 4330 Rangeland Ecosystem Assessment and Monitoring.
2016 (F)	<i>Fire effects in Wyoming and technology for fire planning and modeling.</i> REWM 4330 Rangeland Ecosystem Assessment and Monitoring.
2016 (S)	<i>Prescribed fire planning and application.</i> REWM 4850 Rangeland Vegetation Management Techniques
2016 (S)	<i>Dynamic rangeland management principles and research in Wyoming.</i> AECL 4990 Agroecology Seminar

- 2015 (F) *Measuring herbaceous fuels and modeling fire behavior and grazing management influence on conifer mortality.* REWM 4330 Rangeland Ecosystem Assessment and Monitoring.
- 2015 (S) *Natural Resources Planning – Private-Lands Ranching Case Studies.* REWM 4900 Rangeland Management Planning
- 2015 (S) *Dynamic rangeland management principles and research in Wyoming.* AECL 4990 Agroecology Seminar
- 2015 (S) *Herbivore diets, targeted grazing, distribution, and livestock-wildlife interactions.* REWM 2000 Principles of Rangeland Management
- 2015 (S) *Quantitative Review of Wild Horse Dietary Conflicts with Livestock and Wildlife on Western Rangelands.* REWM 4850 Rangeland Vegetation Management Techniques

*Sheridan College*

- 2017 (F) *Prescribed fire applications.* REWM 2000 Rangeland Principles.

*Oklahoma State University*

- 2014 *What are rangeland resources?.* NREM 4613 Rangeland Resources Planning
- 2013 *Rangeland entomology and management of livestock ecto-parasites with interactive fire-grazing processes.* NREM 3613 Principles of Rangeland Management
- 2013 *Patch burn grazing.* NREM 3613 Principles of Rangeland Management
- 2013 *Grazing distribution.* NREM 3613 Principles of Rangeland Management
- 2013 *Multi-species grazing management.* NREM 3613 Principles of Rangeland Management.
- 2013 *Common range plants of Oklahoma field laboratory.* NREM 3613 Principles of Rangeland Management.
- 2013 *Technology for fire planning and modeling.* NREM 4783/5783 Prescribed Fire.
- 2013 *Fire plans.* NREM 4783/5783 Prescribed Fire.
- 2012 *Mopping up prescribed fire.* NREM 4783/5783 Prescribed Fire.
- 2012 *Fire breaks.* NREM 4783/5783 Prescribed Fire.
- 2012 *Fire plans.* NREM 4783/5783 Prescribed Fire.
- 2012 *Technology for fire planning and modeling.* NREM 4783/5783 Prescribed Fire.
- 2012 *Recoupling fire and grazing in mesic tallgrass prairie invaded by tall fescue.* NREM Departmental Seminar

*Graceland University*

- 2011 *Ranch management in the 21<sup>st</sup> century.* AGRI 1100 Twenty-First Century Agriculture.

*University Symposia Presentations*

- 2012 9<sup>th</sup> Annual Research Symposium in Biological Sciences, Oklahoma State University, Stillwater, OK. Presented *Effects of patch-burn grazing on horn flies and implications for cattle production.*
- 2011 8<sup>th</sup> Annual OSU Research Symposium on Multivariate Methods in Community Ecology, Oklahoma State University, Stillwater, OK. Presented *Effects of fire and grazing on plant species composition of fescue-invaded eastern tallgrass prairie*

*Oklahoma State University Teaching Assistant***Advanced Prescribed Fire.** NREM 4793/5793*Spring 2013* - 11 Students (4 Graduate, 7 Undergraduate)*Spring 2014* – 8 Students (2 Graduate, 6 Undergraduate)

Assisting John Weir. Assisted with prescribed fire activities and training on ignition, suppression, equipment and fire weather. Graded fire plans. Assisted with 2 day prescribed fire training in Woodward, Oklahoma for landowners and agencies. I advised students on courses, resumes, presentations and fire plans.

**Introduction to Prescribed Fire.** NREM 4783/5783*Fall 2013* - 14 Students (3 Graduate, 11 Undergraduate)*Fall 2012* - 15 Students (8 Graduate, 7 Undergraduate).

Assisting John Weir. Wrote and graded article quizzes, assisted with writing exams, graded term projects (prescribed fire plans), entered grades and managed grades online. I also provided guest lectures as needed and developed new materials.

**Principles of Rangeland Management. NREM 3613****Fall 2013** – 26 Students (1 Graduate, 25 Undergraduate)

Assisting Karen Hickman. I guest lectured, developed a lecture on range livestock parasites and emerging management strategies, coordinated quizzes and coordinated the range plant identification field trip. Twenty-one students were surveyed and 100% ranked quality of my instruction as Very High/High for Preparation and Organization, Effort Devoted to Teaching, Knowledge of Subject, Ability to Explain Subject Matter, Positive Attitude Towards Students and Overall Appraisal of Quality of Instruction.

**Rangeland Resources Planning. NREM 4613****Spring 2014** – 11 Students (11 Undergraduate)

Assisting Karen Hickman. I guest lectured as needed, assisted with student projects and public presentations. Student Comments from Survey: “Excellent job at explanation of new topics, patience and attention to students. Evident desire to share knowledge and teach.”; “Derek is one of the best teachers I have sat and listened to. He is interesting and cuts out all the useless information. Willing to help outside class for any reason (other classes).”

**MENTORING**

2020/2021 – UW Academic Writing Fellows (UWAWF) program Mentor for Hannah Crocker Cunningham – Assistant Professor in Animal Science. The request came from the Ellbogen Center for Teaching + Learning.

2016/2017 – Career Development Mentor for Abby Perry – Extension SMRR Educator based on Rawlins, WY. I am co-mentoring with Mae Smith on this assignment. The request came from Extension Administration.

**ORGANIZED SYMPOSIA/INVITED FACILITATING AND MODERATING**

2023	Americas Grasslands Conference – serving as liaison for UW as co-host with National Wildlife Federation. Cheyenne, WY.
2020	Wyoming Section for the Society for Range Management Annual Meeting. Virtual. 45 attended day 1 and 89 attended day 2.
2020	Wyoming Prescribed Fire Council Annual Meeting. Virtual. 52 attended.
2020	Association for Fire Ecology Conference, Tucson, AZ. Fire Circle Session - Prescribed Fire Councils of the Central and Southern Rockies (G. Edwards, M. Babler, <b>J.D. Scasta</b> , J. Hansen, M. Caggiano, and D. Godwin)
2020	Society for Range Management Annual Conference, Denver, CO. Special Session – What are Animals Eating?: New Methods for Estimating Diet Composition on Rangelands (M. Stephenson, D. Augustine, and <b>J.D. Scasta</b> )
2019	Focus Group Moderator, University of Wyoming Extension Focus Group in Sweetwater County, Sustainable Management of Rangeland Resources Group, 6 Participants, Rock Springs, WY.
2017	National Wild Horse and Burro Summit, Salt Lake City, NV. Science Session Co-Coordinator with Utah State University colleagues. An estimated 200+ participants.
2017	Society for Range Management Annual Conference, St. George, UT. Special Session – Southern Rockies Fire Science Network
2016	Focus Group Moderator, University of Wyoming Extension Focus Group in Lincoln County, Sustainable Management of Rangeland Resources Group, 7 Participants, Afton, WY.
2015	Association for Fire Ecology International Congress, San Antonio, TX. <i>Special Session – Fire effects on North American wildlife and livestock.</i> Co-coordinated with Dr. Brady Allred – University of Montana. Included 11 presentations from researchers in Kansas, Montana, North Dakota, Oklahoma, Oregon, Texas, and Wyoming, mean attendance per presentation = 49; total unique subject contacts for the special session = 535.
2015	Focus Group Moderator, University of Wyoming Extension Focus Group in Sublette County, Sustainable Management of Rangeland Resources Group, 9 Participants, Pinedale, WY.
2011	Roundtable discussion for Oklahoma State University NREM graduate students and faculty with USDA/NMSU Scientist Dr. Joel Brown, Stillwater, OK.

**COMMUNITY COLLEGE COLLABORATION**

I have worked with faculty at Wyoming Community Colleges to amend course content and credits in order to streamline matriculation into the Rangeland Ecology and Watershed Management program at the University of Wyoming.

- 2022 *Laramie County Community College (Cheyenne, WY)* – Assisting Katie Shockley in re-designing Principles of Range Management course structure and content.
- 2020 *Sheridan College (Sheridan, WY) and Northwest College (Powell, WY)* – Multiple discussions with teaching faculty (Mae Smith and Will Rose respectively) about courses covering Rangeland Ecosystems and Plants including breaking the course into a general plants course and then a taxonomy course and follow Common Course Syllabi.
- 2015 *Casper College (Casper, WY)* – On-site meeting with Dr. John Tanaka and teaching faculty at Casper College to discuss course offerings and matriculation issues.

**PRESENTATIONS*****RECENT INVITED PRESENTATIONS***

- 2024 University of Wyoming, Board of Trustees, *Cattle and carbon*. Laramie, WY. (23 participants)
- 2024 Wyoming Farm Bureau, Annual Young Farmers and Ranchers (YF&R) Conference. *Soil health and livestock grazing*. Laramie, WY. (44 participants)
- 2024 Society for Range Management Annual Meeting, Wild Equine Science Roundup Symposium. *Feral horse cause-specific mortality relative to gathering and individual demographic attributes*. Sparks, NV.
- 2024 Thunder Basin Research Initiative. *Fire-herbicide effects and plant community response to prescribed fire in differentially degraded greasewood sites*. Virtual (40 participants)
- 2023 Wyoming Stock Growers Association, Winter Meeting, *Voluntary carbon markets for ranchers and considerations from Wyoming* (joint with Nicki Nimlos). Casper, WY. (39 participants)
- 2023 University of Wyoming, College of Agriculture, Life Sciences and Natural Resources (CALSNR) Advisory Board. *Cattle and rangeland carbon*. (30 participants)
- 2023 Wyoming Legislative Joint Ag Committee (Agriculture, State and Public Lands & Water Resources). *Cattle and rangeland carbon*. (28 participants)
- 2023 University of Wyoming, Agriculture Experiment Station - Sheridan – Night Under the Stars. *Laramie Research and Extension Center overview*. (50 participants)
- 2023 Utah-Wyoming Ag Days, *Sheep grazing larkspur as a toxic plant mitigation strategy* (11 participants)
- 2023 Thunder Basin Research Initiative, *Sheep grazing larkspur as a toxic plant mitigation strategy* (79 participants)
2023. Wyoming Section – Society for Range Management. *BLM donkeys as guard animals for sheep at LREC*. Laramie, WY. (47 participants)
- 2022 Wyoming Stock Growers Association, Winter Meeting, *Livestock grazing selectivity and grazing management*. Casper, WY (80 participants).
- 2022 United States Department of Agriculture, Natural Resource Conservation Service (USDA NRCS) Prescribed Fire Training, *Prescribed fire law and liability in Wyoming*. Esterbrook, WY (22 participants).
- 2022 United States Department of Agriculture, Natural Resource Conservation Service (USDA NRCS) Prescribed Fire Training, *Weather influence on fuels and fire behavior*. Esterbrook, WY (22 participants).
- 2022 Wyoming Wool Growers Summer Meeting, *Drought and rangeland grazing*. Wright, WY (50 participants)
- 2022 Wyoming Stock Growers Association, Summer Meeting, *Sheep grazing of the toxic larkspur plant*. Cheyenne, WY (35 participants).
- 2022 Thunder Basin Research Initiative (TBRI), *Fire and forage quality*. Virtual (80 participants).
- 2022 Texas A&M University, San Angelo Research and Extension Center, *Grazing and Renewable Energy*. San Angelo, TX (42 participants).
- 2021 Wyoming Stock Growers Association, *Environmental sustainability: soil health and grazing*. Casper, WY (65 participants).
- 2021 Wyoming Stock Growers Association, *Larkspur management utilizing sheep grazing*. Casper, WY (50 participants).
- 2021 Bighorn Cattlemen's Association, *Understanding Robel pole applications for grazed Idaho fescue grasslands in the Big Horn Mountains*. (virtual; 18 participants).

- 2021 8<sup>th</sup> Annual National Grazing Lands Conference, *University of Wyoming participation in the Metrics, Management, and Monitoring: An investigation of pasture and rangeland soil health and its drivers* (group panel). Myrtle Beach, North Carolina (400 participants)
- 2021 Oklahoma State University Range Club, *Overview of SRM student activities and range club possibilities* (virtual; 5 participants).
- 2021 Wyoming Rural Fire Association Annual Meeting, Wyoming Prescribed Fire Council (PFC) update. Casper, WY (85 participants).
- 2021 Indian Nations Conservation Alliance, *The benefits of prescribed burning for managing tribal lands*. (virtual; 83 participants representing 24 tribes).
- 2021 Thunder Basin Research Initiative, *Collaborative cow-calf performance research*. (virtual; 91 participants).
- 2021 Wyoming Wool Growers Association, *Targeted sheep grazing of plains larkspur (*Delphinium geyeri*) as a cattle toxicity mitigation strategy*. Joint with H. Fraley. Lander, WY (40 participants)
- 2021 Bighorn Cattlemen's Association. *Update on the Robel pole project on the Bighorn National Forest*. Dayton, WY (5 participants)
- 2021 University of Basel (Switzerland), Department of Environmental Sciences, The Institutskolloquium of DUW Zoology, Seminar Current Topics in Zoology and Evolution, *The human-horse relationship in global natural conservation*. (virtual; 39 participants).
- 2021 Wyoming Conservation District Employee's Association, *How to use rangeland monitoring data*. Sheridan, WY (delivered virtually due to snow; 15 participants)
- 2021 Wyoming Conservation District Employee's Association, *Rangeland monitoring method selection*. Sheridan, WY (delivered virtually due to snow; jointly with Barton Stam; 15 participants)
- 2020 Engaging Local Communities to Restore Fire Adapted Communities, RREA National Webinar Series. *Building networks and capacity for fire management in Wyoming*. Online Webinar (181 participants)
- 2020 Society for Range Management Annual Conference. *fDNA validation trial using confined cattle*. Denver, CO (75 participants)
- 2020 Society for Range Management Annual Conference. *fDNA and diet quality analyses of cattle grazing shortgrass steppe*. Denver, CO (75 participants)
- 2020 WESTI Ag Days. *Horn fly management for Wyoming cattle*. Worland, WY (19 participants)
- 2020 UW Extension AgHort Online Convention. Horn fly management for Wyoming cattle. (virtual; 19 participants)
- 2019 Wyoming Stock Growers Winter Meeting, Progressive Rancher Forum. *Multi-species grazing in Wyoming – co-presented with Dr. Whit Stewart* (2 sessions). Casper, WY (40 participants)
- 2019 Basin Winter Ranching Series. *Management of horn flies on Wyoming cattle*. Meeteetse, WY (14 participants)
- 2019 Meeteetse Winter Ranching Series. *Management of horn flies on Wyoming cattle*. Meeteetse, WY (18 participants)
- 2019 Wyoming Weed and Pest Council. *Wyoming prairie dog ecology and management*. Evanston, WY (35 participants)
- 2019 The Wildlife Society – Wild Horse Session. *Free-roaming equids and human emotions: merging ecology and psychology*. Reno, NV (60 participants)
- 2019 Wyoming Wool Growers Association – Emerging Producers. *Budgeting irrigated pasture forage for sheep*. Kinneer, WY (25 participants)
- 2019 Wyoming Wool Growers Association – Emerging Producers. *Public grazing leases 101. Joint presentation with Barton Stam*. Laramie, WY (10 participants)
- 2019 Wyoming BLM Pre-Season Fire Meeting. *Formation of the Wyoming Prescribed Fire Council (WY-PFC)*. Cheyenne, WY (28 participants)
- 2019 High Plains Organic Conference. *Range livestock parasite and phenotype trends*. Cheyenne, WY (10 participants)
- 2019 Annual Thunder Basin Research Initiative Meeting. *Fire treatment logistics* (ad hoc). Douglas, WY (32 participants)
- 2018 Restoring the West Conference. *Towards a better understanding of the socio-ecological complexities of feral horses in the U.S. through a global lens*. Logan, UT (210 participants)
- 2018 West Central States Wool Growers Convention. *New technologies for quantifying sheep diets and nutritional decision making for western rangelands*. Casper, WY (40 participants)
- 2018 Southeast Wyoming Beef Production Convention. *Does cow size matter for Wyoming range operations?*. Torrington, WY (32 participants)
- 2018 Wyoming Wool Growers Association. *Forage and sheep nutrition considerations on different range sites at the Laramie Research and Extension Center*. Laramie, WY (16 participants)
- 2018 Patch-burn Grazing Workshop. *Parasites, livestock, wildlife, and weed response to PBG*. Nunn, CO (32 participants)

- 2018 University of Pittsburg Field Ecology Course at the Allen L. Cook Spring Creek Preserve. *Rangeland ecology and management in Wyoming*. Rock River, WY (19 participants)
- 2018 Glenrock Sheep Production Workshop. *Sheep grazing management concepts and ideas*. Glenrock, WY (6 participants)
- 2018 Victoria University of Wellington, Ecology and Evolution Lecture Series. *Socio-ecology of free-roaming horses in North America: opportunities to compare and contrast with Australia and New Zealand*. Wellington, New Zealand (28 participants)
- 2018 Wyoming Entomology Short Course. *Fire and arthropods on rangelands*. Laramie, WY (21 participants)
- 2018 Carbon County Rangeland Extension Seminar. *Rangeland drought management*. Baggs, WY (7 participants)
- 2018 Rawlins BLM Field Office Brown Bag Seminar. *Feral horse research update*. Rawlins, WY (16 participants)
- 2018 Thunder Basin Field Day. *Grazing exclosure research, wildfire, and prairie dogs*. Bill, WY (60 participants)
- 2018 Fremont County Farm and Ranch Days. *DNA barcoding: new technology to understand livestock and wildlife diets*. Riverton, WY (8 participants)
- 2017 Sweetwater County Education Program. *Contemporary rangeland utilization topics for Sweetwater County*. Farson, WY (25 participants)
- 2017 Fremont County Farm and Ranch Days. *Wyoming state-wide predator survey results*. Riverton, WY (15 participants)
- 2017 University of Wyoming Entomology Short Course. *Rangeland ungulate parasites and climate change*. Laramie, WY (18 participants)
- 2017 Wyoming Animal Damage Management Board. *Wyoming livestock predation trends and mitigation survey – final project report*. Lander, WY (22 participants)
- 2017 Wyoming Stock Growers Association – Rangeland Soil Health Workshop. *Interaction between soil health, forage quality/quantity, and livestock production*. Buffalo, WY (80 participants)
- 2017 Sustainable Rangelands Roundtable – Sage-grouse Research Group. *Grazing basics*. Laramie, WY (8 participants)
- 2017 Converse County Rangeland Field Day. *Rangeland forage quality considerations*. Douglas, WY (23 participants)
- 2017 Ten Years of Research in the Grand River Grasslands: Key Findings and New Directions. *Fire effects on external parasites of cattle*. Graceland University, Lamoni, IA (57 participants)
- 2017 Ten Years of Research in the Grand River Grasslands: Key Findings and New Directions. *Key factors in the use of fire and grazing to restore heterogeneity in grasslands*. Graceland University, Lamoni, IA (57 participants)
- 2017 Wyoming Stock Growers Land Trust – Grazing and Range Management Clinic. *Sustainable rangeland management concepts for the Sims Ranch*. McFadden, WY (43 participants)
- 2017 National Wild Horse and Burro Symposium – Science Session. *Framing the contemporary US wild horse and burro conflict: the nexus of society and ecology*. Salt Lake City, NV (200 participants)
- 2017 Lance Creek Rangeland Management Workshop. *Rangeland plants and animal nutrition*. Lance Creek, WY (16 participants)
- 2017 Wyoming Section – Society for Range Management Annual Conference. *Contemporary perspectives on the feral horse issue and insights from GPS collars deployed in southern Wyoming*. Green River, WY (50 participants)
- 2017 Utah Section – Society for Range Management Annual Conference. *Spatial ecology of wild equids and the integration of GPS tracking technology*. Midway, UT (54 participants)
- 2017 Rawlins BLM Field Office Educational Seminar. *Spatial ecology of wild equids and the integration of GPS tracking technology*. Rawlins, WY (21 participants)
- 2017 University of Wyoming, Center for Global Studies Annual Seminar. *Travel exchange to link ecology and production of analogous rangelands of the North and South Hemispheres*. Laramie, WY (60 participants)
- 2016 Universidade Federale Rio Grande do Sul, Seminar for the BioSciences. *Ecology, management, and conservation of North American rangelands*. Porto Alegre, Brazil. (45 participants)
- 2016 Wyoming Stock Growers, Progressive Rancher Form. *Status of livestock predation in Wyoming*. Casper, WY (19 participants)
- 2016 University of Wyoming Extension New Employee Training. *Effective evaluation strategies*. Laramie, WY. (8 participants).
- 2016 Northeast Wyoming Range Livestock Symposium. *Sustainable cattle and sheep production research: nutrition, parasites, and plant selection*. Sundance, WY. (31 participants)
- 2016 Northeast Wyoming Range Livestock Symposium. *Drought management strategies for the ranch*. Sundance, WY. (31 participants)
- 2016 Albany County Cattle Parasite Management Workshop. *IPM for livestock parasites on Wyoming rangelands*. Laramie, WY. (13 participants)

- 2016 Albany County Cattle Parasite Management Workshop. *Horn flies on range cattle*. Laramie, WY. (13 participants)
- 2016 Carbon County Stock Growers Annual Conference. *Beef industry trends and rangeland grazing efficiency*. Saratoga, WY. (37 participants)
- 2016 Converse County Women in Range Conference. *Nutritional value of drought affected rangeland*. Eastern Wyoming College. Douglas, WY. (7 participants)
- 2016 Southern Wyoming Beef Cow Symposium. *IPM for rangeland livestock parasites*. Torrington, WY. (10 participants)
- 2016 Sublette County Range-Wildlife Conference. *Wildlife-livestock dietary and spatial overlap research*. Pinedale, WY. (40 participants)
- 2016 University of Wyoming Extension Wildlife Training. *Wild horse diet composition and conflict with wildlife and livestock*. (12 participants)
- 2016 USDA Colorado NRCS Range and Soils Staff Webinar. *Fire effects on soil health*. (34 participants)
- 2016 Wyoming Animal Damage Management Board Summer Meeting. *Update on livestock-predator survey*. Douglas, WY. (15 participants)
- 2016 Fremont County Farm and Ranch Days. *Wild horse conflicts with wildlife and livestock*. (18 participants)
- 2016 Great Plains Fire Science Exchange Webinar. *Fire and parasites: implications for animal and human ecology and strategic management*. (11 participants)
- 2016 Wind River Reservation Winter Livestock Series. *Matching livestock needs with rangeland resources*. (7 participants)
- 2016 Bureau of Land Management – Rawlins FO, Rocksprings FO, and State Horse Lead Meting. *Update on proposed wild horse spatial ecology and rangeland resource selection research*. Rawlins, WY. (9 participants)
- 2016 Bureau of Land Management – Rawlins Field Office Requested Range-Wildlife Training. *Wild horse conflicts with livestock and wildlife*. Rawlins, WY. (12 participants)
- 2015 Wyoming Stock Growers Association Winter Roundup – Progressive Ranchers Series. *Impacts of cow size on weaning weights*. (~35 participants)
- 2015 6th International Fire Ecology and Management Congress. *Fire effects on livestock and wildlife*. San Antonio, TX. (49 participants)
- 2015 Thunder Basin Research Mega-Meeting. *Interactive effects of herbivory and disturbance on plant communities*. Douglas, WY. (28 participants)
- 2015 Nebraska Section of the Society for Range Management Conference. *Applied research on the effects of fire on livestock and wildlife*. Scottsbluff, WY. (48 participants)
- 2015 Wyoming Chapter of the American Society of Farm Managers and Ranch Appraisers. *Overview of current range research statewide*. Laramie, WY. (22 participants)
- 2015 Nebraska Grazing Conference. *Prescribed fire effects and benefits for cattle*. Kearney, NE. (140 participants)
- 2015 Chadron Forestry Field Day. *Manipulating the fuel vs. forage paradox: implications for ponderosa pine ecosystem grazing*. Chadron, NE. (100 participants)
- 2015 USDA NRCS Soil Health Division Meeting in Wyoming. *Fire effects on soil health of rangelands*. Cheyenne, WY. (21 participants)
- 2015 Basin Education Days. *Cow body size influence on weaning weights and efficiency relative to drought*. Basin, WY. (60 participants)
- 2015 11<sup>th</sup> Annual University of Wyoming Entomology Short Course. *Effects of elevation and climate on external and internal parasites*. Laramie, WY. (20 participants)
- 2015 Wind River Indian Reservation Cows, Horses, Grass Workshop. *Dietary conflicts between wild horses, livestock, and wildlife*. Fort Washakie, WY. (12 participants)
- 2015 Wind River Indian Reservation Cows, Horses, Grass Workshop. *Drought and cow body size influence on calf weaning weights*. Fort Washakie, WY. (12 participants)
- 2015 Albany County Cattle Update. *Cattle parasite ecology and management as influenced by drought and elevation*. Laramie, WY. (20 participants)
- 2015 Society for Range Management Annual Conference, High School Youth Forum Professional Interaction. *My path as a professional rangeland manager*. Sacramento, CA.
- 2015 Society for Range Management Annual Conference, Special Symposium for Wildland/Prescribed Fire and Range Management: The Friend, The Foe, The Future. *Fire effects on livestock and wildlife strategies for capturing the positive and mitigating the negative*. Sacramento, CA.
- 2014 University of Wyoming, Extension Specialists Meeting. *UW Rangeland Extension: plant-animal interaction ecology*. Laramie, WY.



- 2014 University of Wyoming, Laramie Agriculture Experiment Station Beef Unit Management Team Meeting. *Beef unit weaning data: calving season, cow size, and drought*. Laramie, WY.
- 2014 Wyoming Stock Growers Association 2014 Winter Roundup, Progressive Rancher Forum. *Wild horse dietary conflicts with livestock and wildlife*. Casper, WY.
- 2014 University of Wyoming, SAREC Agriculture Experiment Station Advisory Council Meeting. *Research projects at SAREC*. Laramie, WY.
- 2014 University of Wyoming In-Depth Extension Conference. Sustainable Management of Rangeland Resources Initiative Team Information Exchange. *Potential research on plant-animal interactions on Wyoming rangelands*. Laramie, WY.
- 2014 Thunder Basin Grassland and Prairie Ecosystem Association Meeting. *Proposed conceptual framework and grazing ecology research in the Thunder Basin*. Bill, WY.
- 2014 University of Wyoming, Department of Ecosystem Science and Management Seminar. *The interaction of fire, grazing and climate: Implications for ecology and management of rangelands*. Laramie, WY.
- 2014 The Noble Foundation. Agriculture Consultants Seminar. *The interaction of fire, grazing and climate in the southern Great Plains*. Ardmore, OK.
- 2013 Oklahoma State University Winter Crop School. Special Session: Pasture resilience and beef production in changing climatic conditions. *Invasive species management*. Stillwater, OK.
- 2013 Ninth Annual Tallgrass Prairie Management Seminar. *Patch-burn grazing in the Grand River Grasslands*. Beatrice, NE.
- 2013 Beef 2015: Rangeland Resource Management Extension Program. *Rangeland function*. Amarillo, TX.
- 2012 Patch-Burn Grazing Field Day, *Fire effects on plants and grazing*. Kellerton, IA.
- 2010 Legacy Outfitters May Meeting. *Feral hogs (Sus scrofa): biology and management*. Upland Bird Country. Corsicana, TX.
- 2010 Texas Agrilife Extension Service, District 8 County Agent-Agriculture and Natural Resources, Result Demonstration and Applied Research Training. *Agriculture and natural resource result demonstration success from a county agent perspective*. Waco, TX.
- 2010 Texas Agrilife Extension Service, District 5 County Agent-Agriculture and Natural Resources Planning Conference. *Forage, wildlife and natural resource demonstrations*. Mosley Ranch, Houston County, TX.
- 2010 Western Navarro Bobwhite Restoration Initiative Field Day. *Plant Identification in the field*. Shadow Mountain Ranch, Navarro County, TX.
- 2010 Texas Youth Range Workshop. *Grazing management as a tool*. Junction, TX.
- 2009 Quail Restoration Workshop. *Brush sculpting to optimize quail habitat*. Blooming Grove, TX.
- 2008 Texas Parks and Wildlife Range Management Training District 5. *Grazing management 101*. Navarro Mills, TX.

#### VOLUNTEER PRESENTATIONS (SOME OF MANY)

##### National and International

- 2024 Society for Range Management Annual Conference. *Refinement of the Robel pole for rangeland grazing applications: insights from diverse applications*. Sparks, NV.
- 2019 International Wild Equid Conference. *Equids and humans: a historical examination of global psycho-ecology influencing emotions*. Prague, Czech Republic (September 2019)
- 2018 7NGLC (7<sup>th</sup> National Grazing Lands Conference). *Understanding the wild horse issue in the western US using insights from mares equipped with GPS transmitters in a high-elevation desert*. Reno, NV. (45 participants)
- 2018 International Association for Vegetation Scientists. *Vegetation structure and shrub dynamics relative to fire, prairie dogs, and large ungulates in a hierarchical exclusion experiment at the eastern terminus of the sagebrush steppe*. Bozeman, MT. (100 participants)
- 2017 Wyoming Extension Conference. *Special Session: How to ruin (or not) the Educator-Specialist relationship*. Laramie, WY. (31 participants)
- 2016 X International Rangeland Congress. *Evolving deployment of Extension resources for rangelands in Wyoming: moving from county generalist to regional specialist*. Saskatoon, Saskatchewan, Canada. (60 participants)
- 2016 X International Rangeland Congress. *Multi-decadal cow size changes and rangeland grazing: a cryptic trend altering plant-animal interaction ecology and impacts for grazing decisions*. Saskatoon, Saskatchewan, Canada. (150 participants)
- 2016 Society for Range Management Annual Conference. *Cow-size and herd efficiency relative to weather variability on Wyoming rangeland*. Corpus Christi, TX.
- 2015 America's Grassland Conference. *Influence of fire, grazing and drought on cattle herbivory, endophyte infection, and alkaloid concentration of tall fescue invaded grasslands*. Fort Collins, CO.

- 2013 Livestock Insect Workers Conference. *Fire as a tool to manage dung dependent parasites of grazing cattle*. Nebraska City, NE.
- 2013 Society for Range Management Annual Conference. Fire Ecology and Management Session - *Response of buckbrush (*Symphoricarpos orbiculatus* Moench) to fire in tallgrass prairie*. Oklahoma City, OK.
- 2013 Society for Range Management Annual Conference. Poster Session - *Combustion dynamics of cattle fecal pats*. Oklahoma City, OK.
- 2012 Patch-Burn Grazing Working Group - *Effects of patch-burn grazing on horn flies and implications for cattle production*. Chase County, KS.
- 2012 Society for Range Management Annual Conference. Ecological Sites and Thresholds, Fire Ecology and Management, Range Ecology Session - *Impact of patch-burn grazing management on fly pressure on range cattle in the Great Plains*. Spokane, WA.
- 2012 Society for Range Management Annual Conference. Poster Session – *Applying patch-burn grazing in tallgrass prairie rangeland invaded by an exotic cool-season grass*. Spokane, WA.
- 2006 Rio Grande Basin Initiatives Annual Conference. *Rainwater harvesting in Ward County, TX*. Ruidoso, NM.
- 2004 Southern Weed Science Society Annual Meeting, *Regiment effect on rice growth and yield*. Memphis, TN.

#### State

2023. Wyoming Section – Society for Range Management. *BLM donkeys as guard animals for sheep at LREC*. Laramie, WY. (47 participants)
2017. Extension Range Initiative Team. *Opportunities for participation in state-wide livestock diet and weather instrumentation demonstrations*. Saratoga, WY. (9 participants)
2017. Wyoming Board of Agriculture. *Update on UW wild horse ecology project*. Casper, WY. (13 participants)
2015. Wyoming Stock Growers Association Winter Roundup – Livestock Health and Production Committee. *Notification of the forthcoming UW predator survey*. (~60 participants)
- 2015 Sustainable Management of Rangeland Resources (SMRR) Initiative Team Meeting. *Plant-animal interaction R & E opportunities*. Casper, WY. (10 participants)
- 2013 Kansas Natural Resources Conference. *Tall fescue invasion and implications for natural resource conservation*. Wichita, KS.
- 2010 Texas Section – Society for Range Management Annual Conference. Young Professionals Session. *Evaluating a county brush management field day in the blackland prairie of Texas*. Odessa, TX.
- 2009 Texas Section – Society for Range Management Annual Conference. Young Professionals Session. *Ecology and control of common persimmon (*Diospyros virginiana*)*. Beaumont, TX.
- 2006 State Youth Water Camp. *Rangeland watershed management*. Monahans, TX.

#### District and Regional

- 2008 17<sup>th</sup> Annual North Holiday Classic Livestock Clinic and Prospect Show. *Health care and exercise for show lambs*. Waco, TX. (w/ Nick Hoffman).
- 2006 District 6 4-H Symposium. *4-H range science project*. Big Spring, TX.

#### Multi-County

- 2015 Bridger-Teton National Forest Larkspur Planning Meeting. *Larkspur toxicity, specific alkaloid content, and data acquisition to guide grazing management*. Jackson, WY. (6 participants)
- 2010 Cattle Artificial Insemination and Palpation Training. *Body condition scoring cattle: Implications for reproduction*. Angus, TX.
- 2009 Multi-County CEU Conference. *Reading pesticide labels for weed and brush control in pastures*. Fairfield, TX.
- 2007 Trinity Basin Conservation Foundation - Trinity River Stewardship Project: Youth Field Day. *Measuring dissolved oxygen and temperature to assess water quality of Mill Creek*. 77 Ranch, Blooming Grove, TX.
- 2007 Reeves/Pecos Counties Forage Crops Workshop. *Screening alfalfa for salt tolerance*. Pecos, TX.

#### County

- 2019 Snowy Range Academy – Career Day. *Range and natural resource research and management*. Laramie, WY (94 participants)
- 2015 Pole-Mountain Vegetation Sampling Field Meeting. *Vegetation sampling techniques to assess effectiveness of fire and mechanical treatments*. Happy Jack, WY. (7 participants)
2011. Cattle Production Workshop. *Experiences using the BioPryn blood test for pregnancy determination in beef cattle*. 55 attended. Corsicana, TX.
2011. Private Applicator Training. *Preparing for the pesticide applicator exam*. 12 attended. Corsicana, TX.

2010. Brush Management Field Day. *Using Pestman for brush control decisions*. 71 attended. Corsicana, TX.  
 2010/2011. BGISD Global Day. *Impact of grazing on Texas watersheds*. 376 attended. Navarro Mills, TX.  
 2009. Fall Forage Workshop. *Using OSU Cowculator v2.0 for supplemental feeding decisions*. 34 attended. Corsicana, TX.  
 2009 Animal Science 101. *Administering injections to livestock; Sheep & goat production and selection*. 20 attended. Corsicana, TX.  
 2009 BGISD Wildlife Field Day. *Range plant identification*. 77 Ranch, Blooming Grove, TX, April 2009, 69 attended.  
 2008 Elected Official Interpretation. *Maintaining economic profitability in tough economic times*. Representative Byron Cook. Corsicana, TX.

### **EXTENSION PROGRAMMING** (some of many)

#### **NATIONAL/INTERNATIONAL**

- 2023 Large Animal Health and Handling Training for US Army Veterinary Corps – Public Health Activity – Italy. *Co-coordinator with Dr. Whit Stewart, Dr. Craig Calkins, and colleagues at the Scottish Rural College*. (8 veterinarians and 24 technicians from England, Germany, Italy, Spain, Turkey)  
 2023 America's Grasslands Conference (Cheyenne, WY), 286 total attendance – *Presenter and Co-Host with National Wildlife Federation among others*; included a tour of the UW McGuire Ranch with 26 attendees  
 2018 Restoring the West Conference (Logan, UT), 210 total attendance – *Presenter*  
 2017 National Wild Horse and Burro Summit (Salt Lake City, UT), 200+ total attendance – *Steering Committee, Special Session Co-Coordinator, Presenter*  
 2017 Society for Range Management Annual Conference, St. George, UT. Special Session – Southern Rockies Fire Science Network – *Coordinator, Presenter*  
 2015 International Fire Ecology Congress, Special Symposium – Fire Effects on North American Livestock and Wildlife (San Antonio, TX), 539 total attendance – *Coordinator, Presenter*  
 2015 USDA Soil Health Working Group – Wyoming Tour (Cheyenne, WY), 21 attended - *Presenter*  
 2009 Introduction to Pasture Management 5 Week WebCourse, *Course Facilitator*

#### **STATE/MULTI-STATE**

- 2023 Range Cow Beef Symposium, Coordination of demonstration of rangeland grazing and soil-water dynamics. Joint Presentation with USDA-NRCS (110 participants)  
 2023 3M's Rancher Meeting about grazing, soil health, economics, etc.; Invited 20 ranches from WY and CO to Laramie October 25th and 26th with 23 and 46 (31 in person/15 virtual) attending respectively.  
 2023 Wyoming Sheep Task Force Meeting, Laramie, WY. (Worked with colleague to develop rangeland forage component and lead tour of LREC pastures to present on forage quality and predator control). *Presenter* (12 participants)  
 2023 Wyoming Section – Society for Range Management Annual Meeting, Laramie, WY. Coordinated facilities and presentations. (53 participants)  
 2022 University of Wyoming Extension, new ANR training. Laramie, WY. *Presenter* (7 participants)  
 2022 Wyoming - United States Department of Agriculture, Natural Resource Conservation Service (USDA NRCS) Prescribed Fire Training. Esterbrook, WY. *Presenter* and assisted with curriculum development (22 participants)  
 2022 Wyoming Wool Growers Summer Meeting Wright, WY; *Presenter* and Co-coordinator of ranch tour with Whit Stewart (50 participants)  
 2022 Wyoming Ranch Camp – Rangeland Grazing Day. Broadbent Ranch, Evanston, WY. 12 participated – Co-coordinator and presenter with Barton Stam.  
 2022 Wyoming Ranch Management and Agriculture Leadership (RMAL) Seminar. Sheridan, WY; *Presenter* and Co-coordinator (80 participants)  
 2022 Wyoming Ranch Management and Agriculture Leadership (RMAL) Seminar. Laramie, WY; *Presenter* (50 participants)

- 2022 Wyoming Stock Growers Association, Summer Meeting and 150<sup>th</sup> Anniversary Celebration; co-coordination and presentation on sheep grazing larkspur field day at HPGRS, Cheyenne, WY. 35 participated – Co-coordinator and presenter
- 2021 Wyoming Prescribed Fire Council. 27 participated (virtual) – Co-coordinator.
- 2021 Wyoming Section – Society for Range Management. 52 participated Day 1, 71 participated Day 2 (virtual) – Co-coordinator
- 2021 Wyoming Ranch Camp – Rangeland Grazing Day. Broadbent Ranch, Evanston, WY. 14 participated – Co-coordinator and presenter with Barton Stam.
- 2020 Wyoming Prescribed Fire Council. 52 participated (virtual) – Co-coordinator
- 2020 Wyoming Section – Society for Range Management. 49 participated Day 1, 89 participated Day 2 (virtual) – Coordinator
- 2019 Wyoming Prescribed Fire Council. 36 attended (Cody, WY) – Co-coordinator
- 2019 Wyoming Section – Society for Range Management. 75 attended (Cheyenne, WY) – *Assisting with planning the annual meeting as Southeast Council Rep and Range Club Advisor*
- 2019 University of Wyoming Job Fair, 5 attended my session at the UW Extension Booth (Laramie, WY) – *Booth Co-Host*
- 2018 University of Wyoming Job Fair, 8 attended my session at the UW Extension Booth (Laramie, WY) – *Booth Co-Host*
- 2018 Patch-burn Grazing Workshop, 32 attended (Nunn, CO) – *Assisted with program development, Presenter*
- 2018 Wyoming Stock Growers Association Summer Meeting, 70 attended (Riverton, WY) – *coordinated drawing for Extension Range Weather Station*
- 2018 Wyoming Entomology Short Course, 21 attended (Laramie, WY) – *Presenter*
- 2017 State Extension Conference, Special Session, 25 attended (Laramie, WY) – *Co-presenter*
- 2017 Wyoming Stock Growers Land Trust – Ranch Tour, 43 attended (McFadden, WY) – *Presenter*
- 2017 Wyoming/Colorado Stocker Cattle Flexibility Summit, 27 attended (Nunn, CO) – *Co-coordinator, Focus Group Moderator*
- 2017 Wyoming Stock Growers – Soil Health Workshop, 80 attended (Buffalo, WY) – *Presenter*
- 2017 USDA ARS – Adaptive Grazing Management Meeting, 23 attended (Nunn, CO) – *Participant*
- 2017 University of Wyoming Extension Range Initiative Team Meeting, 9 attended (Saratoga, WY) – *Presenter*
- 2017 University of Wyoming Extension Range Initiative Team Meeting, 10 attended (Douglas, WY) – *Participant*
- 2017 University of Wyoming Extension Entomology Short Course, 18 attended (Laramie, WY) – *Presenter*
- 2017 Utah Section for Range Management Annual Conference, 54 attended (Midway, UT) – *Presenter*
- 2017 Wyoming Section for Range Management Annual Conference, 50 attended (Green River, WY) – *Presenter, Supervised Students*
- 2017 Wyoming Animal Damage Management Board Meeting, 22 attended (Lander, WY) – *Presenter*
- 2016 University of Wyoming Extension Wildlife Training, 12 attended (Laramie, WY) – *Co-coordinator, Presenter*
- 2016 University of Wyoming Extension New Employee Training, 8 attended (Laramie, WY) – *Presenter*
- 2016 Colorado USDA NRSE Range and Soils Staff Webinar, 34 attended (Online) – *Presenter*
- 2015 Nebraska Section for the Society for Range Management Annual Conference, 48 attended (Scottsbluff, WY) – *Presenter*
- 2015 Nebraska Grazing Conference, 140 attended (Kearney, NE) – *Presenter*
- 2015 Wyoming Chapter of the American Society of Farm Managers and Range Appraisers, 22 attended (Laramie, WY) – *Presenter*
- 2015 Wyoming Entomology Short Course, 20 attended (Laramie, WY) – *Presenter*
- 2014 - 2016 Wyoming Stock Growers Association – Progressive Rancher Forum (Casper, WY) – *Presenter*

2006 – 2010 Texas Youth Range Workshops, June 06-10, 183 total (Junction, TX) *Director, Presenter*  
 2005 – 2006 State Youth Water Camps, 42 total youth (Monahans, TX)  
*Co-hosted, Presenter*

*DISTRICT/REGIONAL*

2017-2024 Forest Service-WSGA-UW Extension collaborative group assessing grazing monitoring on the Tongue District of the Big Horn National Forest – This has included numerous in-person meetings to date (averaging 3 in-person meetings and 5 virtual meetings/conference calls annually), mediations, and long-term monitoring.  
 2022 Farm and Ranch Days, 7 attended (Riverton, WY) – *Presenter*  
 2019 Discussing range related topics for agriculture seminar series in the northwestern portion of the state with Jeremiah Vardiman.  
 2018 Thunder Basin Field Day, 60 attended (Bill, WY) – *Organizer, Presenter*  
 2018 Tongue District Rangeland Monitoring Permittee Meeting, 18 attended (Dayton, WY) – *Presenter*  
 2018 Glenrock Sheep Production Workshop, 6 attended (Glenrock, WY) – *Presenter*  
 2018 Fremont County Farm and Ranch Days, 8 attended (Riverton, WY) – *Presenter*  
 2018 Thunder Basin Research Initiative, 31 attended (Douglas, WY) – *Presenter (ad hoc)*  
 2017 Fremont County Farm and Ranch Days, 15 attended (Riverton, WY) – *Presenter*  
 2017 Rawlins BLM FO Brown Bag Seminar, 21 attended (Rawlins, WY) – *Presenter*  
 2016 Great Plains Fire Science Webinar, 11 participants (online) – *Presenter*  
 2016 Northeast Wyoming Range Livestock Symposium, 31 participants (Sundance, WY) – *Presenter*  
 2016 Southern Wyoming Beef Cow Symposium, 7 attended (Torrington, WY) – *Presenter*  
 2016 Fremont County Farm and Ranch Days, 18 attended (Riverton, WY) – *Presenter*  
 2015 - 2016 Wind River Reservation Ag Programs (Fort Washakie, WY) – *Presenter*  
 2015 Chadron Forestry Field Day, 100 participants (Chadron, NE) – *Presenter*  
 2015 Thunder Basin Research Mega-Meeting, 28 participants (Douglas, WY) – *Presenter*  
 2007 – 2010 Holiday Classic Livestock Clinic and Prospect Show Lamb Clinic, 509 total attendance  
*Co-coordinator, Presenter*  
 2008 District 5 TPWD Range Training, 15 attended (Navarro Mills, TX) – *Co-coordinator, Presenter*  
 2007 Agriculture Chemical Waste Collection, 87 participants, 15.2 Tons collected (Corsicana, TX) – *Co-coordinator w/ TCEQ*

*MULTI-COUNTY*

2014-Present Long-Term Rangeland Forage Monitoring with Saratoga-Encampment-Rawlins Conservation District (near Saratoga, WY on Kelley Cattle Company annually), 6-12 participants annually  
 2019 Elk Ridge Site Selection for Monitoring Field Tour (near Cora, WY), 7 participants  
 2018 Prairie Dog Collaborative Meetings (5 total, Douglas, WY), 231 total attendance – *Scientific support*  
 2017 Meeteetse Conservation District and Park County Extension Ranching Seminar (Meeteetse, WY), 23 attended – *Presenter x 2*  
 2015 Big-Horn Basin Extension Program (Basin, WY), 60 attended – *Presenter*  
 2010 Ranch Diversification Workshop (Mexia, TX), 87 attended – *Co-Coordinator*  
 2010 Cattle Artificial Insemination and Palpation Training (Angus, TX), 11 attended the 3 day (18 hour training) – *Coordinator, Presenter*  
 2007 Feral Hog Abatement Meeting, 11 attended (Frost, TX) – *Co-coordinator*  
 2007 Wildlife Habitat Management Workshop, 43 attended, 2 CEU's (Malone, TX) – *Co-coordinator*  
 2006 Ranchers Workshop, 13 attended (Crane, TX 2006) – *Co-coordinator*  
 2005 Range Monitoring Workshop, 10 attended (Odessa, TX) – *Co-coordinator*  
 2005 Quail Appreciation Day, 5 attended (Crane, TX) – *Co-coordinator*  
 2005 Beef Cattle Reproduction Seminar, 9 attended (Andrews, TX) – *Co-coordinator*  
 2005 Spring Range Management Seminar, 18 attended (Monahans, TX 2005) *Co-coordinator*  
 2004 Fall Range & Livestock Management Seminar, 5 attended (Gardendale, TX) – *Co-coordinator*

*COUNTY*

2023	Albany County Plant Walk, 38 attended (UW McGuire Ranch) – <i>Co-coordinated and Presented</i>
2018	Carbon County Rangeland Extension Seminar, 7 attended (Baggs, WY) – <i>Presenter</i>
2017	Sweetwater County Education Program, 25 attended (Farson, WY) – <i>Presenter</i>
2017	Niobrara County – Lance Creek Rangeland Management Field Day, 16 attended (Lance Creek, WY) – <i>Presenter</i>
2017	Converse County Rangeland Plant Field Day, 23 attended (Douglas, WY) – <i>Presenter</i>
2016	Sublette County Range-Wildlife Conference, 40 attended (Pinedale, WY) – <i>Presenter</i>
2016	Albany County Cattle Parasite Management Workshop, 13 attended (Laramie, WY) – <i>Co-coordinator, Presenter</i>
2016	Carbon County Stock Growers Annual Conference, 37 attended (Saratoga, WY) – <i>Presenter</i>
2016	Converse County Women in Range Conference, 7 and 9 attended (Douglas, WY) – <i>Presenter and Graduate Student Presented</i>
2015	Wind River Reservation Grazing Program, 12 attended (Fort Washakie, WY) – <i>Presenter, Conducted Evaluations</i>
2015	Wind River Ag Summit, 38 attended, (Riverton, WY) – <i>Presenter</i>
2015	Laramie County Extension Pasture Tour, 7 attended, (Cheyenne, WY) – <i>Presenter</i>
2015	Carbon County Extension Open House, 113 attended (Rawlins, WY) – <i>Presenter</i>
2015	Albany County Cattleman's Update, 20 attended (Laramie, WY) – <i>Presenter</i>
2006 – 2011	8 – Private Pesticide Applicator Trainings, 88 attended (Corsicana, TX) <i>Coordinator, Presenter</i>
2007 – 2010	4 – Quail Call Counts, 45 participants – <i>Co-coordinator</i>
2008 – 2011	4 – Navarro County Youth Exposition Judging Contests (Plant ID, Land, Livestock, Poultry), 1,346 total youth, (Corsicana, TX) – <i>Coordinator</i>
2007 & 2009	2 – Ranch Tours, 95 total attendance, 2 CEU's – <i>Coordinator</i>
2008 & 2009	2 - Beef Cattle Mgmt Clinics, 208 total attendance (Corsicana, TX) <i>Coordinator</i>
2007 – 2009	4 – Fall Forage Workshops, 152 total attendance, 9 total CEU's (Corsicana, TX) – <i>Coordinator</i>
2010	Cattle Production workshop. 55 attended (Corsicana, TX) <i>Coordinator, Presenter</i>
2011	Introduction to Prescribed Burning Workshop. 108 attended. 95,492 acres of managed lands in 27 counties represented. Corsicana, TX. <i>Coordinator, Presenter</i>
2010	Brush Management Field Day, 71 attended. 5 CEU's. Corsicana, TX – <i>Coordinator, Presenter</i>
2010	Ranch Gathering: Theft and Legislation Concerns. 122 attended. Corsicana, TX – <i>Co-coordinator</i>
2007 & 2010	2 - Rainwater Harvesting Field Days, 55 attended - <i>Coordinator</i>
2009	Grazing & Stockmanship Workshop, Sep 09, 110 participants (Corsicana, TX) – <i>Co-coordinator</i>
2009	Quail Restoration Workshop, 37 participants (Blooming Grove, TX) <i>Co-coordinator</i>
2008	Grazing Management 101 Workshop, 87 attended (Blooming Grove, TX) <i>Co-coordinator</i>
2007	Weed and Brush Control 101, 42 attended, 2 CEU's (Corsicana, TX) <i>Coordinator</i>
2007	Trinity River Information Management System (TRIMS) Landowner Usability Meeting Jul 07, 23 attended (Corsicana, TX) <i>Co-coordinated with TAMU - IRNR Staff</i>
2004 – 2006	17 - 4H Range Evaluation & Plant ID Trainings, (108 total, 6.4 average) <i>Coordinator, Coach</i>
2004 – 2006	15 - 4H Livestock Judging Trainings, (99 total, 6.6 average) <i>Coordinator, Coach</i>
2004 – 2006	10 - 4H Sheep and Goat Project Trainings, (227 total, 22.7 average) <i>Coordinator, Presenter</i>
2004 – 2006	9 - 4H Steer Project Trainings, (99 total attended, 11.0 average) <i>Coordinator, Presenter</i>
2006	Farm/Ranch Estate Planning Workshop, 12 attended (Monahans, TX) <i>Coordinator</i>

- |      |  |
|------|--|
| 2006 | RAWHIDE, Ranching Aimed at Wildlife Habitat Improvement and Diversification of Enterprises, 4 producers w/ 38,000 acres in 5 counties (Monahans, TX) - <i>Co-coordinated</i> |
| 2006 | Ward County Animal ID Workshop, 23 attended (Monahans, TX) <i>Coordinator, Presented</i>   |
| 2005 | Small Goat Herd Production Workshop, 10 attended (Monahans, TX) – <i>Co-coordinator</i>  |

*SELECTED EXTENSION RESULT DEMONSTRATION/APPLIED RESEARCH REPORTS (prior to starting at UW; some of many)*

- Swiger, J., and **J.D. Scasta**. 2010. *Efficacy of ear tags for horn fly control in north central Texas, Ferrer Ranch, Armstrong Ranch, Brooks Ranch*. Navarro County. 2010 Demonstration Handbook.
- Scasta, J.D.** 2010. *NIR fecal analysis as a nutrition management tool for range cattle, Talley Ranch*. Navarro County. 2010 Demonstration Handbook.
- Scasta, J.D.** 2010. *Ranch-level logistics and applications of the BioPryn blood test for pregnancy determination in beef cows, Bonner Ranch*. Navarro County. 2010 Demonstration Handbook.
- Hart, C.R., Hatler, W., **Scasta, J.D.** and M. Arnold. 2010. *Individual plant herbicide applications on honey locust – Progress Report, SJ Ranch*. Navarro County. 2010 Demonstration Handbook.
- Scasta, J.D.** 2010. *Efficacy of soil, basal and foliar applied herbicide treatments on honey mesquite (Prosopis glandulosa), Tree Brand Ranches*. Navarro County. 2010 Demonstration Handbook.
- Hart, C.R., Hatler, W., Vahlenkamp, M., **Scasta, J.D.**, Gray, B. and A. Munoz. 2010. *Individual plant treatment demonstrations on pricklypear – Progress Report, Sumner Ranch*. Navarro County. 2010 Demonstration Handbook.
- Hart, C.R., Hatler, W., Begeman, H. and **J.D. Scasta**. 2010. *Ground broadcast applications of Aminocyclopyrachlor on mesquite – Progress Report, Brewer Ranch*. Navarro County. 2010 Demonstration Handbook.
- Hart, C.R., Hatler, W. and **J.D. Scasta**. 2010. *Ground broadcast applications of Aminocyclopyrachlor on honey locust – Progress Report, Marrs Ranch*. Navarro County. 2010 Demonstration Handbook.
- Scasta, J.D.**, and V. Langston. 2010. *Efficacy of Dow herbicides applied broadcast on mesquite, Brewer Ranch*. Navarro County. 2010 Demonstration Handbook.
- Scasta, J.D.**, and V. Langston. 2010. *Efficacy of Dow herbicides applied IPT on mesquite, Orler Ranch*. Navarro County. 2010 Demonstration Handbook.
- Scasta, J.D.** 2009. *Effect of color, sex and weight on the value of commercial calves, Corsicana Livestock Auction*. Navarro County. 2009 Demonstration Handbook.

## **FIRE EXPERIENCE AND TRAINING**

### **PRESCRIBED FIRE TRAINING**

- |             |  |
|-------------|--|
| 2010        | Texas Prescribed Rangeland Burning for Extension Personnel, Pilot Agent, 8 hours   |
| 2011        | Bosque County TX Prescribed Burning Training, 12 hours and a burn  |
| 2011        | Navarro County TX Prescribed Burning Training, 6.5 hours   |
| 2011 – 2013 | Oklahoma State University Courses  |
|             | <u>NREM 5783 – Introduction to Prescribed Fire</u>   |
|             | Student – Fall 2011  |
|             | Teaching Assistant – Fall 2012   |
|             | <u>NREM 5793 – Advanced Prescribed Fire</u>  |
|             | Student – Spring 2012  |
|             | Teaching Assistant – Spring 2013   |
|             | <u>NWCG course equivalency assigned by OSU instructor:</u>   |
|             | <ul style="list-style-type: none"> <li>• S-130 Firefighter Training</li> <li>• S-190 Introduction to Wildland Fire Behavior</li> <li>• S-234 Ignition Operations</li> <li>• S-290 Intermediate Wildland Fire Behavior</li> <li>• RX-410 Smoke Management Techniques</li> </ul> |
| 2013        | Woodward Oklahoma Prescribed Fire Training. Jan 12, Oklahoma State University, 12 hours  |

### **PRESCRIBED FIRE SKILLS AND ABILITIES**

1. Planning prescribed fires including pre-fire preparations
2. Advantages/disadvantages of different types and combinations of fire guards
3. Writing fire plans

4. Developing fire prescriptions for various management and research goals
5. Fire behavior modeling with BehavePlus software
6. Assessing smoke dispersion and trajectory using VSmoke-Web software
7. Assessing fire weather conditions prior-to and during burning
8. Training and directing ignition and suppression crews
9. Operating drip torches, sprayers, hand tools, etc.
10. Post fire mop-up techniques

#### ***PRESCRIBED FIRE EXPERIENCE***

53 Prescribed fires from 2008 to Present

Ownership: Private, University, State Wildlife Departments, Federal

6 States (Colorado, Iowa, Oklahoma, South Dakota, Texas, Wyoming)

Size: Range from <0.1 acres to 340 acres

Purposes: Research, Management, Education & Training

Total Area: ~ 1,731 acres

Fuel Types:

*Big Sagebrush/Grass Complex (WY)*

*Greasewood/Salt Grass (CO, WY)*

*Mesquite Savannah Grassland (TX)*

*Northern Mixedgrass Prairie (WY, SD)*

*Oak-Juniper Woodland Cross Timbers (OK)*

*Sand Sagebrush/Southern Mixedgrass Prairie (OK)*

*Shortgrass Prairie (CO)*

*Tallgrass Prairie and Tall Fescue Invaded Prairie (TX, IA)*

#### ***WILDFIRE RESPONSE AND MONITORING***

2016 – Medicine Bow National Forest, Coordination, quality control, and deployment of graduate student for post-fire assessment of fire intensity in lodgepole pine/subalpine fir/aspen forests following the Broadway Fire (WY) and the Beaver Creek Fire (CO and WY)

2009 – Navarro County, TX, Post-fire assessment of vegetation recovery after a hot summer wildfire on the Navarro College property in a mesquite savannah

2009 – Ward County, TX, Response with VFD to Cactus Ranch and H&B Cattle wildfire suppression

#### **REQUIRED UNIVERSITY OF WYOMING TRAININGS**

University of Wyoming – *A Diverse Workplace (OFCCP Training)* 9/15/2014; 4/1/2015; 11/13/2018

University of Wyoming – *Sexual Misconduct and the Duty to Report* 2/22/2016; 6/4/2018

University of Wyoming – *Sexual Harassment and Discrimination Prevention* 1/17/2018

University of Wyoming – *Search Committee Information Session (WyoCast Recording)* 3/5/2018

University of Wyoming – *Monitoring the Onboarding Process* 11/13/2018

University of Wyoming – *HCM Recruiting System Access* 11/13/2018

University of Wyoming – *Managing and Progressing the Candidate Pool* 11/13/2018

University of Wyoming – *Create Requisition for Academic Hire* 11/13/2018

University of Wyoming – *WyoCloud Financial Management Training (10 Modules)* 6/4/2018