

Eric T. Thacker
Associate Professor of Rangeland Management
Rangeland Management Extension Specialist
Wildland Resources Department
5230 Old Main Hill Logan, UT 84322-5230
eric.thacker@usu.edu
(435) 770-6156

CAREER SUMMARY & HIGHLIGHTS

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| <ul style="list-style-type: none">• 49 peer-reviewed journal articles• H-index 15, 762 citations• Organized 53 workshops• Taught 89 workshops• Organized 24 field tours• \$14,890,684.68 in grants | <ul style="list-style-type: none">• 103 invited presentations• 26 peer-reviewed factsheets• Spoke at 22 Field tours• 2016 UT SRM Range Manager of the Year• 2020 USU Extension Cooperator of the Year• 2023 USU Extension Specialist of the Year |
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EDUCATION

- **PhD**, Wildlife Sciences, Utah State University, 2010.
- **MS**, Range Sciences, Utah State University 2006.
- **BS**, Range Science, Utah State University, 2001.

PROFESSIONAL EXPERIENCE:

2025 – Prsnt Professor/ Rangeland Management Extension Specialist, Dept. of Wildland Resources, Utah State University

2019 – 2025 Associate Professor/ Rangeland Management Extension Specialist
Dept. of Wildland Resources, Utah State University

2013 – 2019 Assistant Professor/ Rangeland Management Extension Specialist
Dept. of Wildland Resources, Utah State University

2011 – 2013 Range Ecologist (post-doctoral research fellow), Dept. of Natural Resources Ecology and Management, Oklahoma State University

2010 – 2011 Research Range Management Specialist (post-doctoral research fellow), USDA – ARS Southern Plains Range Research Station

2006 – 2010 PhD. Research Assistantship, Dept. of Wildland Resources, Utah State University

2000 – 2006 Range Research Technician, USDA – ARS Poisonous Plant Research Lab

PEER-REVIEWED JOURNAL ARTICLES

* = Graduate student (my lab) † = Graduate student/post-doc (other lab)

2025

1. Barkat, Z., J. D. Ulrich-Schad, E.T. Thacker, E. (2025). Ranchers' Views of Smart Foodscapes: Applied and Methodological Insights. *Rangeland Ecology & Management*, 98:93-296.

2024

2. Jablonski, K.E., J.D. Derner, D.W. Bailey, K.W. Davies, P.J. Meiman, L. M. Roche, **E. T. Thacker**, L. T. Vermeire, and K. R. Stackhouse-Lawson, 2023. Principles for successful livestock grazing management on western US rangelands. *Rangelands* 46:35-41
3. Bailey, E. C., **E. T. Thacker**, T. A. Monaco, K. E. Veblen. 2024. Transplanted sagebrush "wildlings" exhibit higher survival than greenhouse-grown tubelings, yet both recruit new plants. *BMC Ecology and Evolution*, 24:50.
4. Wilmer, H., D. B. Ferguson, M. Dinan, **E. T. Thacker**, P. B. Adler, K. B. Walsh, J. B. Bradford, M. Brunson, J. D. Derner, E. Elias, A. Felton, C. Gray, C. Greene, M. P. McClaran, R. K. Shriver, M. Stephenson, K. N. Suding. 2024. Resilience is not enough: toward a more meaningful rangeland adaptation science. *Rangeland Ecology & Management*, 95:56-67.

2023

5. Riginos, C., K. E. Veblen, **E. T. Thacker**, K. L. Gunnell, and T. A. Monaco, 2023. Resilience and Resistance Framework Predicts Regional Vegetation Responses to Shrub Reduction Treatments in the Sagebrush Ecosystem. *Rangeland Ecology & Management*, 86:35-43.
6. Muzzo, B.I., D. D. Maleko, **E. T. Thacker**, and F. D. Provenza, 2023. Rangeland management in Tanzania: Opportunities, challenges, and prospects for sustainability. *International Journal of Tropical Drylands*, 7(2).
7. Small, J.R., T. A. Messmer, M. W. Brunson, **E. T. Thacker**, and D. K. Dahlgren, 2023. Enhancing local governance through community-based conservation: lessons learned from a Utah local working group. *Wildlife Society Bulletin*, 47(3).

2022

8. Veblen, K. E., K. C. Nehring, M. C. Duniway, A. Knight, T. A. Monaco, E. W. Schupp, and **E. T. Thacker**, 2022. Soil depth and precipitation moderate soil textural effects on seedling survival of a foundation shrub species. *Restoration Ecology*, 30(6), e13700.
9. Stonecipher, C. A., **E. T. Thacker**, and M. H. Ralphs, 2022. Relative influence of precipitation

and grazing on a salt desert shrub plant community. *Western North American Naturalist*, 82(2), 245-253.

10. Scasta, J. D., **E. T. 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*, 16:9.

2021

11. Stoner, D. C., *M. T. Anderson, C. A. Schroeder, †C. A. Bleke, **E. T. Thacker**. 2021. Distribution of Competition Potential Between Native Ungulates and Free-Roaming Equids on Western Rangelands. *The Journal of Wildlife Management*.
12. Garcia, M. D., K. Chapman, K. Heaton, J. Dallin, K. Rood, **E. T. Thacker**, R. Larsen. 2021. 50 Using GPS and Genomic Technology to Provide a More Accurate Estimate of Bull Power in Western Intermountain Beef Systems. *Journal of Animal Science*, 99(Supplement_3), 28-29.
13. †Zimmer, S. N., E. W. Schupp, J. L. Boettinger, M. C. Reeves, **E. T. Thacker**, 2021. Considering Spatiotemporal Forage Variability in Rangeland Inventory and Monitoring. *Rangeland Ecology & Management*, 79, 53-63.
14. Dinan, M., P. B. Adler, J. Bradford, M. Brunson, E. Elias, A. Felton, **E. T. Thacker**, 2021. Making research relevant: Sharing climate change research with rangeland advisors to transform results into drought resilience. *Rangelands*, 43(5), 185-193.
15. Stonecipher, C. A., C. Ransom, **E. T. Thacker**, K. Welch, D. Gardner, M. Palmer 2021. Herbicidal control of deathcamas (*Zigadenus paniculatus*). *Weed Technology*, 35(3), 380-384.

2020

16. Stoner, D. C., T. A. Messmer, R. T. Larsen, S. N. Frey, †M. T. Kohl, **E. T. Thacker**, D. K. Dahlgren. 2020. Using satellite-derived estimates of plant phenological rhythms to predict sage-grouse nesting chronology. *Ecology and Evolution*, 10(20), 11169-11182.
17. Starns, H. D., S. D. Fuhlendorf, R. D. Elmore, D. Twidwell, **E. T. Thacker**, T. J. Hovick, B. Luttbeg. 2020. Effects of pyric herbivory on prairie-chicken (*Tympanuchus spp*) habitat. *PloS One*, 15(6), e0234983
18. Stonecipher, C. A., C. Ransom, **E. T. Thacker**, K. D Welch. 2020. Herbicide Control of Broom Snakeweed (*Gutierrezia sarothrae*). *Poisonous Plant Research (PPR)*, 3(1), 75-82.

2019

19. †Riginos, C., K. Gunnell, T. A. Monaco, K. E. Veblen, K. Gunnell, **E. T. Thacker**, D. K. Dahlgren, T. A. Messmer. Potential for post-fire recovery of Greater Sage-grouse habitat. *Ecosphere* 10:11 e02870
20. Dahlgren, D. K., T. A. Messmer, B. A. Crabb, M. T. †Kohl, S. N. Frey, **E. T. Thacker**, R. T.

Larsen, R. J. Baxter 2019. Sage-Grouse Breeding and Late Brood-Rearing Habitat Guidelines in Utah. Wildlife Society Bulletin.

21. †Riginos, C., K. Gunnell, T. A. Monaco, K. E. Veblen, **E. T. Thacker**. 2018. Disturbance type and sagebrush community type affect plant community structure following shrub reduction. *Range Ecology and Management* 72:619-631
22. †Stonecipher, C. A., **E. T. Thacker**, K. D. Welch, M. H. Ralphs, T. A. Monaco. 2019. Long-Term Persistence of Cool-Season Grasses Planted to Suppress Broom Snakeweed, Downy Brome, and Weedy Forbs. *Range Ecology and Management* 72:266-274
23. Starns, H. D., S. D. Fuhlendorf, R. D. Elmore, D. Twidwell, **E. T. Thacker**, T. J. Hovick, B. Luttbeg. 2019. Recoupling fire and grazing reduces wildland fuel loads on rangelands. *Ecosphere* 10(1), e02578.

2018

24. *Rigby, C. W., K. B. Jensen, J. E. Creech, **E. T. Thacker**, B. L. Waldron, J. D. Derner. 2018. Establishment and Trends in Persistence of Selected Perennial Cool-Season Grasses in the Western United States. *Range Ecology and Management* 7:681-690
25. Hulvey, K., †K. Thomas, **E. T. Thacker**. 2018. A comparison of two herbaceous cover sampling methods to assess ecosystem services in high-shrub rangelands: photography-based grid point intercept (GPI) versus quadrat sampling. *Rangelands* 40:152-159
26. Monaco, T. A., A. Jones, M. Pendergast, **E. T. Thacker**, L. Greenhalgh. 2018. Influence of land-use legacies following shrub reduction and seeding of big sagebrush sites. *Range Ecology and Management* 71:695-704
27. Danvir, R., G. Simmonds, E. Sant, **E. T. Thacker**, R. Larsen, T. Svejcar, R. D. Ramsey, F. D. Provenza, C. Boyd. 2018. Upland bare ground and riparian vegetative cover under strategic grazing management, continuous stocking, and multi-year rest in New Mexico mid-grass prairie. *Rangelands* 40:1- 8

2017

28. Springer, T. L., **E. T. Thacker**. 2017. Apparent seed digestibility and germination of seed after passage through the digestive system of quail. *Southwest Naturalist* 62:193-199.

2016

29. **Thacker, E. T.**, T. L. Springer. 2016. Preference of northern bobwhite quail among native seeds of the sand sagebrush-mixed prairie. *Southwestern Naturalist* 61:307-311.
30. †Tanner, E. P., R. D. Elmore, C. A. Davis, S. D. Fuhlendorf, D. K. Dahlgren, **E. T. Thacker**, J. P. Orange. 2016. Does the presence of oil and gas infrastructure potentially increase risk of harvest in northern bobwhite? *Wildlife Biology* 22:294-304.

31. †Orange, J. P., C. A. Davis, R. D. Elmore, E. P. Tanner, S. D. Fuhlendorf, **E. T. Thacker**. 2016. Evaluating the efficacy of brood flush counts for two quail species. *Western North American Naturalist* 76:485-492.
32. **Thacker, E. T.**, R. L. Hamm, J. Hagen, C. A. Davis, F. S. Guttery. 2016. Evaluation of the Surrogator® system for restoring pheasant and quail populations. *Wildlife Society Bulletin* 40: 310–315.
33. Dahlgren, D. K., T. A. Messmer, R. T. Larsen, R. J. Baxter, T. A. Black, B. A. Crabb, S. N. Frey, M. R. Guttery, **E. T. Thacker**, J. D. Robinson. 2016. Seasonal movements of greater sage-grouse populations in Utah: Implications for species conservation. *Wildlife Society Bulletin* 40:288-299.
34. †Braithwaite, H, †T. M. Bateman, K. E. Veblen, **E. T. Thacker**, J. J. Villalba. 2016. Identification of elk preferences for different diet supplements. *Wildlife Society Bulletin* 40: 368-374.
35. Scasta, J. D., **E. T. Thacker**, T. J. Hovick, D. M. Engle, B. W. Allred, S. D. Fuhlendorf, J. R. Weir. 2016. Patch-burn grazing (PBG) as a livestock management alternative for fire-prone ecosystems of North America. *Renewable Agriculture and Food Systems* 31:550-567.

2015

36. **Thacker, E. T.**, T. A. Messmer, B. Burritt. 2015. Sage-grouse habitat monitoring: Daubenmire vs. line-point intercept. *Rangelands* 37: 7-13.
37. †Tanner, E. P., R. D. Elmore, S. D. Fuhlendorf, C. A. Davis, **E. T. Thacker**, D. K. Dahlgren. 2015. Behavioral responses at distribution extremes: How artificial surface water can affect quail movement patterns. *Rangeland Ecology and Management* 68:476-484.
38. Dahlgren, D. K., R. T. Larsen, R. Danvir, G. Wilson, **E. T. Thacker**, T. Black, J. W. Connelly, T. A. Messmer. 2015. Sage-grouse response to sagebrush treatments: Insights from a 23-year case study in Utah. *Range Ecology and Management* 68:375-382.
39. †Carroll, J. M., C. A. Davis, R. D. Elmore, S. D. Fuhlendorf, **E. T. Thacker**. 2015. Thermal patterns constrain diurnal behavior of a ground-dwelling bird. *Ecosphere* 6:1-15.

2014

40. †Orange, J. P., C. A., Davis, R. A. Van Den Bussche, S. D. Fuhlendorf, R. D. Elmore, **E. T. Thacker**, M. E. Judkins. 2014. Development and characterization of 23 microsatellite loci for scaled quail (*Callipepla squamata*). *Conservation Genetics Resources* 6:929-931.

2013

41. Guttery, M. R., T. A. Messmer, **E. T. Thacker**, N. Gruber, C. M. Culumber. 2013. Greater

sage-grouse sex ratios: does the evidence support the assumption? *Journal of Wildlife Management* 77: 1593-1597.

Prior to 2013

42. Gunter, S. A., **E. T. Thacker**, R. L. Gillen, T. L. Springer, R. D. Jones. 2012. Effects of sand sagebrush control in southern mixed-grass prairie rangeland on cattle performance and economic return. *The Professional Animal Scientist* 28:204-212.
43. **Thacker, E. T.**, S. A. Gunter, R. L. Gillen, T. L. Springer. 2012. Sand sagebrush control: implications for lesser prairie-chicken habitat. *Range Ecology and Management* 28:204-212.
44. **Thacker, E. T.**, D. R. Gardner, T. A. Messmer, M. R. Guttery, D. K. Dahlgren. 2012. Using gas chromatography to determine winter sage-grouse diets. *Journal of Wildlife Management* 46:588-592.
45. Springer, T. L., G. J. Puerka, D. L. Maas, **E. T. Thacker**. 2011. The Southern Cornstalk Borer (*Diatraea crambidoides* (Grote), Lepidoptera: Crambidae) a New Pest of Eastern Gamagrass (*Tripsacum dactyloides* (L.) L., Poaceae). *Journal of the Kansas Entomological Society* 84:209-216.
46. Dahlgren, D. K., T. A. Messmer, **E. T. Thacker**, M. R. Guttery. 2010. Evaluation of brood detection techniques: recommendations for estimating greater sage-grouse productivity. *Western North American Naturalist* 70:233-237.
47. **Thacker E. T.**, M. H. Ralphs, T. A. Monaco. 2009. A comparison of inter-and intraspecific interference on broom snakeweed (*Gutierrezia sarothrae*) seedling growth. *Invasive Plant Science and Management* 2:36-44.
48. **Thacker E. T.**, M. H. Ralphs, T. A. Monaco. 2009. Seeding cool-season grasses to suppress broom snakeweed (*Gutierrezia sarothrae*), cheatgrass (*Bromus tectorum*), and weedy forbs. *Invasive Plant Science and Management* 2:237-246.
49. **Thacker, E. T.**, M. H. Ralphs, C. A. Call, B. Benson, S. Green. 2007. Invasion of broom snakeweed (*Gutierrezia sarothrae*) following disturbance: evaluating change in a state-and-transition model. *Rangeland Ecology and Management* 61:263-268.
50. Ralphs, M. H., D. R. Gardner, D. L. Turner, J. A. Pfister, **E. T. Thacker**. 2002. Predicting toxicity of tall larkspur (*Delphinium barbeyi*) and measurement of the variation in toxic alkaloid concentration between plants and among years. *Journal of Chemical Ecology* 28:2327-2341.

PEER-REVIEWED EXTENSION PUBLICATIONS

* = Graduate student (my lab) † = Graduate student/post-doc (other lab) student

2025

1. Farnsworth, C., A. Longmore, **E. T. Thacker**, 2025.. Evaluating 51 Years of the High School Range Camp. Outcomes and Impact Quarterly, 5:1

2024

2. Wilde, T., **E. T. Thacker**, R. Larsen, C. Page, B. Barker, M. Nelson, M. Palmer, S. Price, J. Hadfield, K. Taylor, K., Gilliam, E. 2024. Impact of the 2023 Central Utah Grazing Expo. Outcomes and Impact Quarterly, 4:3.
3. Rasmussen, G.A., K.Voth Revised 2024 by **E. T. Thacker**, R. Violett, R. Carter, and D. Smith. 2024. Repeat Photography Monitoring Made Easy.Utah . Utah State University Cooperative Extension 2477.
4. Bailey, E. C., **E. T. Thacker**, T. A. Monaco, K. E. Veblen, 2024. Mountain big sagebrush restoration in former dryland pasture [Fact sheet]. Utah State University Extension.

2023

5. Stoner D. C., **E. T. Thacker**, L. Greenhalgh, M. Nelson. 2023. You Can Lead a Horse to Water: Mapping Seasonal Water Resources to Predict Wild Horse Movements on Utah Rangelands. Utah State University Cooperative Extension 1221-2023.
6. Veblen, K. E., **E. T., Thacker**, M. Larese-Casanova, K. Nehring, 2023. Establishing Big Sagebrush Seedlings on the Colorado Plateau. Utah State University Extension 0508-2023.

2021

7. Garcia, M. D., R. P. Carter, R. Larsen, **E. T. Thacker**, J. Hadfield, R. K. Briggs, J. Smith, 2021. Evaluating Alternative Feed Sources During Drought. Utah State University Cooperative Extension 2235-2021.

2020

8. Frey, S. N., **E. T. Thacker**, †K. Uhart. 2018. Free-roaming Horses and Burros Coexisting with Wildlife. Utah State University Cooperative Extension. 2-2020.
9. Palmer, M., **E. T. Thacker**, S. Cromwell, K. Heaton, K. Carter. 2020. High Tensile Permanent Electric Fence, Electrifying the Fence. AG/Fences/2020-02pr.
10. Palmer, M. D., **E. T. Thacker**, K. Heaton, In Shannon Cromwell (Ed.), High Tensile Permanent Electric Fence, Installation Utah State University Cooperative Extension. AG/Fences/2020-01pr.
11. †Mann, R., T. A. Monaco, K. E. Veblen, **E.T. Thacker**, E. A. Burritt. 2020. Shrub Management Handbook for Utah Rangelands. Utah State University Extension.

2019

12. Hoopes, K. **E. T. Thacker**, L. Greenhalgh. 2019. Body condition scoring horses. Utah State University Cooperative Extension. Equine/2019-02pr.
13. *Carter, R., **E. T. Thacker**, K. Heaton, B. Burritt. 2019. Grazing and harvest efficiency of forage by cattle on western rangelands. Utah State University Cooperative Extension. AG/Rangelands/2019-01pr.
14. Palmer, M. D., **E. T. Thacker**, K. Heaton, In Shannon Cromwell (Ed.), High Tensile Permanent Electric Fence Planning and Design. Utah State University Cooperative Extension. AG/Fences/2019-01.
15. **Thacker, E. T.**, J. Holmstead. 2018. Beaver: It's about Dam time. Utah State University Cooperative Extension. NR/Wildlife/2019-02pr.
16. Dahlgren, D. K., **E. T. Thacker**. 2019. Livestock Grazing and Sage-grouse: Science, Policy, and the 7-inch Rule. NR/Wildlife/2019-03pr.

2018

17. Stam, B., J. D. Scasta, **E. T. Thacker**. 2018. Animal Unit Month (AUM) Concepts and Applications for Grazing Rangelands. University of Wyoming Extension B-1320.
18. Adler, P., K. Renwick, E. Kachergis, M. Manning, T. Remington, **E. T. Thacker**, C. Aldridge, B. Bradley, A. Kleinhesselink†, C. Curtis, D. Schlaepfer, B. Poulter. Managing big sagebrush in a changing climate. Utah State University Cooperative Extension NR/Wildlands/2018-01pr.
19. **Thacker, E. T.**, J. Holmstead. 2018. Utah monitoring guide. Utah State University Rangeland Extension. (*Peer edited*).
20. Frey, S. N., **E. T. Thacker**. 2018. Wild Horses and Burros: An Overview. Utah State University Cooperative Extension. NR/Wildlife/2018-01pr.

2017

21. †Stewart, E., **E. T. Thacker**, M. D. Garcia, J. J. Villalba. 2017. Understanding the contributions of beef cattle to greenhouse gas emissions. Utah State University Cooperative Extension AG/Beef/2017-03pr.
22. **Thacker, E. T.** 2017. Camp Williams targeted grazing plan. Utah State University Cooperative Extension RNG17-001.
23. †Starns H. D., S. D. Fuhlendorf, R. D. Elmore, D. Twidwell, **E. T. Thacker**, T. J. Hovick. 2017. Patch-Burning reduces fuels and benefits prairie-chicken conservation. Great Plains

Fire Exchange GPE publication 2017-01.

2016

24. Dahlgren, D. K., **E. T. Thacker**, T. A. Messmer. 2016. Considerations for sage-grouse management objectives. Utah State University Extension NR/Sage-grouse/2016-01pr.

2015

25. Dahlgren, D. K., **E. T. Thacker**, T. A. Messmer. 2015. What does a sage-grouse eat? Utah State University Cooperative Extension NR/Wildlife/2015-06pr.

2014

26. Burritt, B., T. A. Monaco, **E. T. Thacker**. 2014 Should ranchers value sagebrush? Utah State University Cooperative Extension NR/Rangelands/2014-01pr.
27. **Thacker, E. T.**, D. Twidwell. 2014. Synthesis of the effect of fire on lesser prairie-chickens. Great Plains Fire Science Exchange GPE publication 2014-6.

2013

28. **Thacker, E. T.**, R. D. Elmore, B. Reavis, T. G. Bidwell. 2013. Management of sand sagebrush rangelands. Oklahoma State University Cooperative Extension NREM-2892.
29. Elmore, R. D., **E. T. Thacker**, L. M. Smith, D.K. Dahlgren. 2013. Distinguishing between greater and lesser prairie-chicken. Oklahoma Cooperative Extension Service L-421.

BOOK CHAPTERS (peer-reviewed)

* = Graduate student (my lab) † = Graduate student/post-doc (other lab)

2023

1. Busby, F.E. "Fee," **E. T. Thacker**, M. T. Kohl, and J. C. Mosley, 2023. Rangeland Ecoregions of Western North America. In Rangeland Wildlife Ecology and Conservation (pp. 9-48). Cham: Springer International Publishing.
2. **Thacker, E. T.**, D. K. Dahlgren, D. Stoner, and M. Clayton, 2023. A perspective on rangeland and wildlife disciplines: Similarities over differences. In Rangeland Wildlife Ecology and Conservation (pp. 995-1010). Cham: Springer International Publishing.
3. Scasta, J.D., D. Twidwell, V. Donovan, C. Roberts, **E. T. Thacker**, R. Wilbur, and S. Fuhlendorf, 2023. Role and management of fire in rangelands. In Rangeland Wildlife Ecology and Conservation (pp. 147-175). Cham: Springer International Publishing.

FUNDED GRANTS & CONTRACTS

2024

PI: E. T., Thacker Co-PI: D. K. Dahlgren. Parker Avian and Sagebrush Conservation Ecology. Utah Bureau of Land Management. 2024-2029 \$ 250,000

PI: K. Schoenecker, Co-Pi: D. Stoner, E. T. Thacker, K. Hersey, E. Saeideh, J. Henning. Spatial Dynamics and Resource Partitioning among Feral, Wild, and Domestic Ungulates in a Western Arid Landscape. Sponsored by BLM Headquarters Office Wild Horse and Burro Research Projects. 2024 – 2028 \$243,187.82

*PI: **K. Taylor, CoPi: E. T. Thacker, D. Stoner, K. Schoenecker.* Modeling feral horse, livestock and native ungulate distribution through GPS collaring. Sponsored by Utah State University Public Land Initiative. 2024 – 2026, \$59,998

2023

PI: Yost, M. Co-PI: E. T. Thacker. Integrated cropland and rangeland drought preparation for enhanced climate resiliency in Utah. Sponsored by USDA SW Climate Hub. 2023 – 2024 \$50,000.00

PI, K. Thorton-Kurth Co-PI, R. Briggs, M. Garcia, R. Larsen, E. T. Thacker. The Effects of an Injectable Trace Mineral on Conception Rate in Beef Cattle on Rangeland. Sponsored by Utah State University Extension. 2023 – 2023 \$22,500

2022

PI: Dahlgren, D. K., Co-PI: E. T. Thacker. Tri-State Avian and Sagebrush Conservation Ecology. Sponsored by Utah Bureau of Land Management. 2022-2026 \$ 1,240,000.00

PI: E. T. Thacker. Co-PI: D. Cook, M. Nelson, R. Violett. There is an App for that. Sponsored by Utah State University Extension Grant. 2022 – 2024 \$ 9,725.00

PI: Stoner, D. A. Co-PI: Hernandez, E. T. Thacker, K. Jensen. A Transparent Protocol for Predicting Habitat Resilience to Climate Change on Wild Horse and Burro Habitats Across the Western United States. Sponsored by BLM Headquarters Office Wild Horse and Burro Research Projects. 2022 – 2025 \$230,0000.00

2021

PI: Villalba, J., Co-PI: J. W. MacAdam, E. T. Thacker, J. Schad, K. Trundle, K. Vela, A. Villa, R. D. Ramsey, D. K. Dahlgren, "Using Smart Foodscapes To Enhance The Sustainability Of Western Rangelands," Sponsored by USDA-NIFA Coordinated Agricultural Program. 2021– 2026 \$6,800,000.00

PI: K. Taylor, Co-PI, J. Hadfield, S. Price, L. Greenhalgh, E. T. Thacker, N. Frey, M. Nelson. Mustang Camp: Promoting Healthy Lands and Healthy Horses. Sponsored by Utah State University Extension. 2021 – 2023 \$29,647

PI: D. Stoner, *Co-PI:* **E. T. Thacker**, M. Larese-Casanova, K. Hoopes. Assessing Wild Horse Body Condition Scores on Rangelands. Sponsored by Utah State University Extension. 2021 – 2023 \$8,560

PI: T. A. Messmer, *Co-PI:* **E. T. Thacker** Optimizing Utah Greater Sage-grouse Conservation. Sponsored by Utah Department of Natural Resources. \$250,000.00 2021 – 2024

PI: **E. T. Thacker.**, *Co-PI:* M. Garcia, R. Larsen Helping Utah Ranchers Mitigate Drought Impacts Using Crop Insurance and Holistic Planning Sponsored by Western Extension Risk Management Education. 2021 – 2024 \$59,967.83

PI: R. Carter, *Co-PI:* K. Taylor, **E. T. Thacker**, M. Garcia, R. Larsen, J. Dallin. Planning Ahead: Preparing Utah Livestock Producers for Drought, Sponsored by Western Extension Risk Management Education, Utah State University. 2021 – 2024 \$47,687.00.

PI: C. Page, K. Rood, **E.T. Thacker**, R. Carter, C. Gasser, M. Heaton, Effects of Mineral Supplementation on Sheep Grazing Distribution, Forage Selection, and Animal Performance on Cedar Mountain, Sponsored by Cedar Mountain Initiative. Utah State University. 2021 – 2023 \$97,956.

Villalba, J., J. W. MacAdam, **E. T. Thacker.**, J. Schad, K. Trundle, K. Vela, Using Smart Foodscapes to Transform Cowherd Nutrition on Western Rangeland. Sponsored by Utah Agricultural Experiment Station. Utah State University. 2021 – 2023 \$79,886

PI: Velblen, K. E., **E. T. Thacker**, T. A. Monaco. Are Good Intentions Enough? Evaluation of Whether Post Wildfire Seed-Mixes Maximize Diversity. Sponsored by Utah Division of Wildlife. 2021 – 2023 \$150,000.00

2020

PI: K. Veblen, *Co-PI:* M. Duniway, T. Agavar, **E. T. Thacker**, J. Villalba, M. Garcia, S. Reed. Criollo cattle as a strategy to maintain output of ecosystem services under a changing climate, Sponsored by USDA-AFRI, Federal. 2021 – 2025. \$495,230

PI: T. Agavar, *Co-PI:* **E. T. Thacker**. Pronghorn space-use ecology in Utah: a key to effective management and conservation. Sponsored by Utah State University Public Lands Initiative. 2020 – 2022, \$58,642.

PI: J. Dallin, *Co-PI:* M. Pace, **E. T. Thacker**, K. Heaton, C. Lott, R. Ramirez. Reducing Negative Effects of Black Grass Bugs on Utah Rangelands", Sponsored by USU Extension, Utah State University. 2020 – 2021, \$13,307.

PI: T. Messmer, *Co-PI:* **E. Thacker**, N. Frey. Increasing Stakeholder Engagement in the Management of Free-roaming Equid, Sponsored by Utah State University Extension,. 2020 – 2022, \$15,000.

PI: C. Zesiger, *Co-PI:* J. Hadfield, J. Dallin, K. Hoopes, M. Garcia, L. Narine, **E. Thacker**, J. Powell. Pasture Demonstration Plots for Improved Pasture Management Education. Sponsored by Utah State University Extension, 2020 – 2021, \$29,999.

PI: R. Carter, *Co-PI:* **E. T. Thacker**, D. Smith. Utah Monitoring Guidelines Program. Sponsored by Utah State University Extension. 2020 – 2020, \$7,585.

2019

PI: **E. T. Thacker**, *Co-PI:* C. Garn, J. Dallen. 2019. Evaluation of Post Fire Management on Wildfire Recovery in Northwestern Utah. Sponsored by Utah Watershed Restoration Initiative. 2019-2021, \$69,999

PI: **E. T. Thacker**, *Co-PI:* C. Garn, J. Dallen. 2019. Evaluation of post-fire restoration in North Western Utah. Sponsored by Utah State University, Public Lands Initiative. 2020-2021, \$44,774.40

2018

PI: **E. T. Thacker**, *Co-PI:* K. Veblen. 2018. Sagebrush Restoration Project – Sponsored by Monsanto Mine, Soda Springs, ID 2019 – 2021, \$162,430.65

PI: T. A. Messmer, *Co-PI:* **E. T. Thacker**, J. Dallin, M. T. Kohl, J. Small. Development and Evaluation of a compensatory mitigation and conservation strategy optimization tool for private landowners. Sponsored by Utah State University Extension Grant. 2018 – 2020, \$30,000

PI: K. Suding, *Co-PI:* B. Allred, D. Ferguson, D. Peck, E. Alias, J. James, **E. T. Thacker**, J. Derner, M. Crimmins, B. Bestelmeyer, J. Bradford, M. McClaran, A. Dunbar-Wallis, A. Felton. P. Adler. Livestock ranching, rangelands, and resilience: ensuring adaptive capacity in an increasingly variable climate. Sponsored by US Department of Agriculture National Institute of Food and Agriculture. 2018 – 2021 \$1,260,000 (to USU \$325,000)

PI: **E. T. Thacker**, *Co-PI:* D. Stoner, L. Greenhalgh, M. Nelson. Mapping seasonal water resources to predict wild horse movements and reduce conflict on Utah Rangelands. Sponsored by Utah State University Extension Grants. 2018 – 2020 \$30,000

PI: T. A. Messmer, *Co-PI:* **E. T. Thacker**, D. K. Dahlgren. Greater Sage-grouse Responses to Livestock Grazing in Semi-Arid Sagebrush Rangelands. Sponsored by Utah Agricultural Experiment Station. 2018 – 2019, \$52,000

PI: K. M. Rood, *Co-PI:* M. Garcia, R. Larsen, **E. T. Thacker**, E. Rickords, J. Dallin, K. Heaton, K. Nay, K. Chapman. Evaluating Bull Breeding Efficiency and Movement, Sponsored by Utah State University Extension. 2018 – 2020, \$30,000.

PI: **E. T. Thacker**, *Co-PI:* D. K. Dahlgren, T. A. Messmer. Sagebrush Ecosystem Alliance.

Sponsored by National Fish and Wildlife Foundation. 2018 – 2020, \$100,000

2017

PI: K. Heaton, *Co-PI:* **E. T. Thacker**, B. Burritt. Utilizing GPS technology to better understand livestock grazing distribution, utilization of forage, and harvest efficiency on the Grand Staircase Escalante National Monument. Sponsored by Kane and Garfield Counties. 2017 – 2018 \$10,000

PI: K. Heaton, *Co-PI:* **E. T. Thacker**, B. Burritt. Utilizing GPS technology to better understand livestock grazing distribution, utilization of forage, and harvest efficiency on the Grand Staircase Escalante National Monument. Sponsored by Utah State University Extension Grant. 2017 – 2018, \$30,000

PI: K. Heaton, *Co-PI:* **E. T. Thacker**, B. Burritt. Utilizing GPS technology to better understand livestock grazing distribution, utilization of forage, and harvest efficiency on the Grand Staircase Escalante National Monument. Sponsored by Bureau of Land Management. 2017 – 2022, \$20,000

PI: K. Heaton, *Co-PI:* **E. T. Thacker**, B. Burritt. Understand Livestock Distribution, Grazing Practices, and Statistical Analysis of Rangeland Data. Grand Staircase Escalante National Monument, Sponsored by Bureau of Land Management. 2017 – 2018, \$10,000

PI: T. A. Messmer, *Co-PI:* D. K. Dahlgren, **E. T. Thacker**, K. Hulvey. Completion of the Bureau of Land Management Third Order Habitat Assessment Framework for Utah Sage-grouse Management Areas, BLM Priority and General Habitat Areas, and a BLM 4th Order HAF Methods Comparison and Evaluation for the Rich County Sage-grouse Management Area. Sponsored by Utah Bureau of Land Management. 2017 – 2021, \$1,200,000

PI: **E. T., Thacker**, *Co-PI:* D. K. Dahlgren, T. A. Messmer. Sagebrush Ecosystem Alliance. Sponsored by Pheasants Forever. 2017 – 2020, \$156,495.

2016

PI: M. Palmer, *Co-PI:* **E. T. Thacker**. Livestock Grazing: An Environmentally Friendly and Economical Solution to Maintaining Fire Breaks in Gamble Oak Dominated Sites. Sponsored by Utah State University Extension Grant. 2016 – 2017, \$10,000

PI: **E. T. Thacker**, *Co-PI:* K. B. Jensen. 2016. Establishment of native grasses, legumes, and forbs in disturbed rangelands using Siberian wheatgrass. Sponsored by US Department of Agriculture Forage and Range Research Lab SCA. 2016 – 2019, \$24,908

PI: **E. T. Thacker**. Utah Monitoring Crew. Sponsored by Utah Public Land Coordination Program. 2016 – 2017, \$20,000

PI: **E. T. Thacker**. Wasatch-Cache-Uintah National Forest Sage-grouse Habitat Assessment Framework. Sponsored by United States Forest Service. 2016 – 2021, \$130,595

PI: E. T. Thacker, Co-PI: J. Wheaton. Restoring water, trout, sage-grouse, and riparian areas on working lands using beaver in Box Elder County. Sponsored by Watershed Restoration Initiative. 2016 – 2018, \$61,371

2015

PI: E. T. Thacker, Co-PI: K. E. Veblen, T. A. Monaco, J. Vernon. Evaluation of wildfire rehabilitation projects on sage-grouse habitat: Documenting Utah plan conservation strategies. Sponsored by Utah's Public Lands Policy Coordinating Office. 2015 – 2016, \$35,386

PI: D. K. Dahlgren, Co-PI: T. A. Messmer, E. T. Thacker. 2015. Forest grouse management in Utah. Sponsored by Utah Division of Wildlife Resources Grant. 2015, \$120,079

PI: K. E. Veblen, Co-PI: M. Duniway, E. T. Thacker, K. Nehring. Interactive effects of soils and browsing on sagebrush: implications for restoration success. 2015 – 2017 \$225,000

PI: E. T. Thacker, Co-PI: D. K. Dahlgren, K. Heaton, T. A. Messmer. Home on the Range: Maintaining Livestock Production and Robust Wildlife Populations. Sponsored by Utah State University Extension Grant. 2015 – 2016, \$10,000

PI: K. Hulvey, Co-PI: E. T. Thacker, B. Burritt, D. Rothlisberger, K. E. Veblen, M. Brunson, R. D. Ramsey. Using livestock grazing systems to manage ecosystem services on Utah Rangelands. Sponsored by Utah State University Extension Grant 2015 – 2016, \$10,000

PI: E. T. Thacker, Co-PI: D. K. Dahlgren, T. A. Messmer. Livestock Grazing and Climatic Influences on a Forest Indicator Species. Sponsored by Utah Agricultural Experiment Station Seed Grants. 2015 – 2017, \$50,000

PI: K. Hulvey, Co-PI: E. T. Thacker, K. E. Veblen, M. Brunson, R. D. Ramsey. Using grazing systems to manage ecosystem services in Utah and western landscapes. Sponsored by Utah Agricultural Experiment Station Seed Grants. 2015 – 2017, \$90,000

PI: T. A. Messmer, Co-PI: K. Hulvey, E. T. Thacker, D. K. Dahlgren. Greater sage-grouse responses to cattle and livestock grazing in sagebrush. Sponsored by Utah Agricultural Experiment Station Seed Grants. 2015 – 2017, \$ 30,000

2014

PI: P. Adler, Co-PI: B. Poulter, C. Aldridge, B. Bradley, J. Balch, J. Bradford, J. Pierce, E. T. Thacker. Forecasting changes in sagebrush distribution and abundance under climate change: integration of spatial, temporal, and mechanistic models. Sponsored by Great Basin LLC. 2014 – 2015, \$99,000

PI: E. T. Thacker, Co-PI: J. Long. Demonstration and evaluation of fall grazing and seeding to rehabilitate annual grass infested rangelands Camp Williams, Sponsored by Utah National Guard. 2014 – 2018, \$7,480

PI: E. T. Thacker, Co-PI: D. Rothlisberger, K. E. Veblen. 2014. Assessment of cattle distribution in Rich County, Utah. Sponsored by Utah State University Extension Grant 2014 – 2015, \$10,000

PI: B. Burritt, Co-PI: E. T. Thacker, J. Gale. Creating a venue to keep land managers current on Aspen research. Sponsored by Utah State University Extension Grant 2014 – 2015, \$10,000

PI: L. Greenhalgh, Co-PI: E. T. Thacker, T. A. Monaco. Quantifying Impacts of Long-term Sagebrush. Sponsored by Utah State University Extension Grant 2014 – 2015, \$10,000

PI: K. E. Veblen, Co-PI: T. A. Monaco, E. T. Thacker. Expediting the comprehensive synthesis and assessment of Utah range trend studies and Watershed Restoration Initiative projects. Sponsored by Utah Watershed Restoration Initiative. 2014 – 2015, \$40,301

PI: J. Long, Co-PI: E. T. Thacker. Use of targeted grazing to reduce wildfire risk at Camp Williams. Sponsored by Utah National Guard. 2014 – 2016, \$61,100

PI: E. T. Thacker, Co-PI: D. K. Dahlgren, T. A. Messmer. Quantifying impacts of long-term sagebrush and juniper control. Sponsored by State and Institutional Trust Administration. 2014 – 2016, \$10,000

PI: E. T. Thacker, Co-PI: D. K. Dahlgren, T. A. Messmer. Quantifying impacts of long-term sagebrush and juniper control. Sponsored by Utah Grazing Improvement Project. 2014 – 2016, \$10,000

PI: E. T. Thacker, Co-PI: D. K. Dahlgren, T. A. Messmer. Quantifying impacts of long-term sagebrush and juniper control on private lands. Sponsored by US Fish and Wildlife Service Partners Program. 2014 – 2016, \$8,000

2013

PI: E. T. Thacker, Utah rangeland needs assessment. 2013. Sponsored by Utah State University Extension Grant. 2013 – 2014, \$6,540

PI: E. T. Thacker, Co-PI: D. Twidwell, R. D. Elmore, S. D. Fuhlendorf, D. M. Engle, T. J. Hovick. Use of patch burning to control fuels and enhance prairie-chicken habitat. Sponsored by Joint Fire Science. 2013 – 2017, \$279,000 (funded at Oklahoma State University)

INVITED PRESENTATIONS

* = Graduate student (my lab) † = Graduate student/post-doc (other lab)

2024

1. **Thacker, E. T. 2024.** Western Rangelands and Gamebirds. Western Game Bird Alliance Meeting. St George, UT.

2. **Thacker, E. T.** 2024. Principles of Grazing Management. Beef Field Days Logan, UT.
3. **Thacker, E. T.** 2024. Grazing Math. Sustainable Grazing Institute. Kaysville, UT.

2023

4. **Thacker, E. T.**, Grazing in the future, the need for healthy riparian ecosystems. Weber River Watershed Conference. Ogden, UT
5. **Thacker, E. T.** Using the Rangeland Analysis Platform to inform grazing decisions. Cache County Cattlemen's. Logan, UT
6. **Thacker, E. T.** Grazing management. Duchesne County Cattlemen's Expo. Duchesne, UT
7. **Thacker, E. T.** Pasture Management. San Juan County Crop School. Blanding, UT
8. **Thacker, E. T.** Using the Rangeland Analysis Platform to inform grazing decisions. Beef Field Days, Logan, UT.
9. **Thacker, E. T.** Managing grazing during Drought. Summit County Beef Educators. Coalville, UT
10. **Thacker, E. T.** Managing grazing during Drought. Sanpete Beef Educators. Ephraim UT
11. **Thacker, E. T.** Using the Rangeland Analysis Platform to inform grazing decisions. AZ Strip Range Livestock Workshop. Hurricane and Orderville, UT.
12. **Thacker, E. T.** Low-Tech wet meadow restoration. Central Utah Grazing Expo. Richfield and Bicknell, UT
13. **Thacker, E. T.** Wild horse and burro management, a wicked problem. Biology Seminar Series, Murray State University. Murray, KY
14. **Thacker, E. T.** The facts about Regenerative grazing. Utah Society for Range Management. Richfield, UT.

2022

15. **Thacker, E. T.** Managing grazing during Drought. Rich County Cattleman's Association. Randolph, UT
16. **Thacker, E. T.** Restoring sagebrush rangelands. Utah Division Of Wildlife Resources Brownbag lunch seminar series. Salt Lake City, UT.
17. **Thacker, E. T.** Drought in Utah, Utah Bankers Association Annual Meeting, St. George, UT

18. **Thacker, E. T.** Managing grazing after drought. Cache County Cattlemen's, Logan, UT
19. **Thacker, E. T.** Managing grazing after drought. Juab County Beef Educators. Nephi, UT
20. **Thacker, E. T.** Managing grazing in Riparian areas, Weber River Watershed Field Tour, Coalville, UT
21. **Thacker, E. T.** Wild horse and burro Management. Utah Woolgrowers Summer Meeting. Logan, UT.
22. **Thacker, E. T.** Developing Grazing Plans. Angus University, American Angus Association. Salt Lake City, UT

2021

23. **Thacker, E. T.** Linking forage Utilization with resilience and resistance. Utah Weed Control Association, Logan, Utah (Zoom).
24. **Thacker, E. T.** If your cows could talk. Uinta Basin Crop and Livestock School. Vernal, Utah.
25. **Thacker, E. T.** Grazing as a fuels reduction treatment: A USU research update. Utah's Interagency Fuel and WUI Committee (Virtual)
26. **Thacker, E. T.** Managing grazing during and after drought. UT/AZ Range Livestock. Hurricane, UT.
27. **Thacker, E. T.** When is the drought over? Beef Educator Series. Tremonton, Utah
28. **Thacker, E. T.** Utah range conditions and drought. Utah Agriculture Banker Association. (Virtual)
29. **Thacker, E. T.** 5 Principles of grazing management. Utah Sustainable Grazing Institute. Panguitch, UT
30. **Thacker, E. T.** Managing grazing during and after drought. Utah State University Extension Webinar.
31. **Thacker, E. T.** Sagebrush management in the West. Utah Association of Counties Congressional Tour. Alton, Utah.
32. **Thacker, E. T.** Drought lessons learned. Central Utah Grazing Expo. Richfield, UT.
33. **Thacker, E. T.** Evaluating range compatibility with cattle in a direct marketing system. Direct Beef Cattle Marketing. Green River, Utah.
34. **Thacker, E. T.** Grazing management for resilience on the Colorado Plateau. Colorado Section

Society for Range Management. Grand Junction, CO.

35. **Thacker, E. T.** Restoring the West Sage-grouse Style. Restoring the West. Utah State University. Virtual.
36. **Thacker, E. T.** Defining the wild horse conflict. Utah Association of Conservation Districts. St George, UT.
37. **Thacker, E. T.** Managing after drought. Utah Section Society for Range Management. Richfield, UT
38. **Thacker, E. T.** Wild Horse and Burros: The wicked ecological problem. Brigham Young University, Charles Redd Center for Western Studies. Provo, UT
39. **Thacker, E. T.** Managing during and after drought. Wyoming Section Society for Range Management. Virtual.

2020

40. **Thacker, E. T.** 2020. If your cows could Talk Wyoming/Utah Ag Days, Evanston, WY
41. **Thacker, E. T.** 2020. Wildhorse impacts on Utah Rangelands, Utah Rural Caucus. Salt Lake City, Utah.
42. **Thacker, E. T.** 2020. Sustainable Forage Harvest. Daggett Soil Conservation District. Manila, UT

2019

43. **Thacker, E. T.** 2019. Using online Rangeland Resources for Rangeland Monitoring, USU Stock and Flock, Logan, UT (Webinar)
44. **Thacker, E. T.** 2019. The reality of wild horse and burro management on western rangelands. US Senate Committee on Energy and Natural Resources, Subcommittee on Public Lands, Forests and Mining. Washington, DC.
45. **Thacker, E. T.** 2019. Pre and post-fire monitoring, Utah Beef Field Days, Provo, Utah.
46. **Thacker, E. T.** 2019. Riparian Grazing. Wyoming/Utah Ag Days, Evanston, WY
47. Dahlgren, D., T. A. Messmer, S. Frey, **E. T. Thacker.** 2019. Utah's sage-grouse habitat guidelines Utah All Lands-All Hands Summit. Utah State University, Salt Lake City, UT.
48. **Thacker, E. T.** 2019. Impacts of grazing on sage-grouse. Utah All Lands-All Hands Summit. Utah State University, Salt Lake City, UT.
49. **Thacker, E. T.** 2019. Sagebrush Community Ecology. Utah All Lands-All Hands Summit.

Utah State University, Salt Lake City, UT.

50. **Thacker, E. T.** 2019. Managing grazing to ensure sustainable forage. Beaver County producer meeting. Beaver, Utah.

2018

51. **Thacker, E. T., †K. Nehring, K. E. Veblen.** 2018. Large ungulate herbivory on rangelands of the Intermountain West. Society for Range Management Annual Meeting, Sparks, NV.
52. Messmer, T. A., **E. T. Thacker.** They shoot horse, don't they? Quinney College of Natural Resources Seminar, Utah State University, Logan, Utah
53. **Thacker, E. T., †C. Lott (Garn).** 2018. Sagebrush Ecosystem Alliance, what have we learned. Intermountain West Joint Venture Ecosystem Alliance Coordination Meeting, Salt Lake City, Utah.
54. **Thacker, E. T.** 2018. Sagebrush Community Ecology. US Forest Service Rangeland Management Specialist Training, Dubois, ID.
55. **Thacker, E. T.** 2018. Five Principles of grazing management. The Sustainable Grazing Institute: Merging the art and science of management intensive grazing, Panguitch, Utah.
56. **Thacker, E. T.** 2018. Defining the wild horse conflict. Institute for Humane Studies and Property and Environment Research Center Policy Research Seminar on Resolving Competing Uses for Western Resources and Wildlife Habitat, Billings, MT.
57. **Thacker, E. T.** 2018. Grazing impacts on sage-grouse. Western Section American Society of Animal Scientists Western Section Annual Meeting, Bend, OR.
58. **Thacker, E. T.** 2018. Grazing impacts on sage-grouse. Color Country Local Working Group, Price, Utah.
59. **Thacker, E. T.** 2018. Managing grazing to reduce wildfires. Beef Producer Education Series, Tremonton, Utah.
60. **Thacker, E. T.** 2018. Managing grazing to ensure sustainable forage. Cache Beef Producer Meeting, Logan, Utah.
61. **Thacker, E. T.** 2018. Managing gazing to ensure sustainable forage. Beef Producer Education Series, Tremonton, Utah.
62. **Thacker, E. T.** 2018. Permittee monitoring. Central Utah Grazing Working Group, Richfield, Utah.
63. **Thacker, E. T.** 2018. Permittee monitoring. Southern Utah Grazing Working Group. Cedar

City, Utah

64. **Thacker, E. T.** 2018. Permittee monitoring. South Eastern Utah Grazing Working Group, Green River, UT.
65. **Thacker, E. T.** 2018. Managing grazing to save your grass. 2nd Annual Spring Beef Workshop, Blanding, UT.
66. **Thacker, E. T.** 2018. Impacts of grazing on sage-grouse. Wyoming Ag Days, Evanston, WY.
67. **Thacker, E. T.** 2018. Impacts of grazing on sage-grouse. Uinta-Wasatch-Cache National Forest, Mountain View – Evanston Permittee Workshop, Mountain View, WY.

2017

68. **Thacker, E. T.** 2017. Plant response to grazing. Piute County Livestock Production Workshop, Junction, UT.
69. **Thacker, E. T.** 2017. Grazing impacts on sage-grouse. Strawberry Valley Local Working Group, Heber, UT.
70. **Thacker, E. T.,** T. A. Messmer, S. Graham. 2017. Managing landscapes for sage-grouse: green stripping and fire. Utah Bureau of Land Management Fuels Meeting, Logan, UT.
71. **Thacker, E. T.,** K. Hulvey. 2017. Impacts of grazing on *E. coli*. Matt Warner Watershed Workshop, Vernal, UT.
72. **Thacker, E. T.** 2017. The use of grazing to mitigate wildfires: "Fake news" or "Making America great again." Wildland Resources Department Seminar, Logan, UT.
73. **Thacker, E. T.** 2017. Prescribed burning in sagebrush ecosystems and implications for sage-grouse. Society for Range Management Annual Meeting, St. George, UT.
74. **Thacker, E. T.** 2017. Defining the wild horse & sage-grouse conflict. Society for Range Management Annual Meeting, St. George, UT.
75. **Thacker, E. T.** 2017. Grazing as a fuels reduction treatment: How does it all fit? Wyoming Ag Days, Evanston, WY.
76. **Thacker, E. T.** 2017. Managing sagebrush landscapes for sage-grouse and livestock. Wyoming Ag Days, Evanston, WY.

2016

77. **Thacker, E. T.** 2016. Current Status of Wild horses. Webinar series for Western Governors Association (Webinar), Logan, UT.

78. **Thacker, E. T.** 2016. Utah Monitoring Guide – adaptive management. Utah Section of Society for Range Management, Richfield, UT.
79. **Thacker, E. T.** 2016. Landscape management of sage-grouse habitat. 8th Intermountain Native Plant Summit, Boise, ID.
80. **Thacker, E. T.** 2016. Managing sage-grouse habitat on Parker Mountain. Utah DWR Brown Bag Lunch series, Salt Lake City, UT.
81. **Thacker, E. T., D. K. Dahlgren.** 2016. Emerging issues for forest grouse conservation in North America: A fresh look at familiar problems. The Wildlife Society Annual Meeting, Raleigh, NA.
82. **Thacker, E. T.** 2016. Rangeland Monitoring. Farm Bureau Public Lands Grazing Conference, Richfield, UT.
83. **Thacker, E. T.** 2016. Principles of Range Management. Utah Farm and Ranch Assessors Annual Meeting, Logan, UT.
84. **Thacker, E. T.** 2016. Methods comparisons for sage-grouse habitat measures. Bureau of Land Management HAF Planning Meeting, Salt Lake City, UT.
85. **Thacker, E. T.** 2016. Utah Rangeland Issues: Fire and wild horses. County Planning Workshop, Richfield, UT.

2015

86. **Thacker, E. T.** 2015. Current status of wild horses and burros in Utah. Dixie State University Seminar Series, St George, UT.
87. **Thacker, E. T.** 2015. Stocking rate: How does it relate to pasture management? Pasture Management Workshop, Utah State University, Logan, UT.
88. **Thacker, E. T.** 2015. Grazing as a fuels reduction treatment: How does it all fit? Arizona Strip Range and Livestock Workshop, Kanab, UT.

2014

89. **Thacker, E. T.** 2014 Rangeland issues in Utah: Wild horses. Kentucky Livestock Producers Western Tour, Logan, UT.
90. **Thacker, E. T.** 2014 Sagebrush community ecology. Master Naturalist Course, Antelope Island, UT.
91. **Thacker, E. T.** 2014. Rangeland Extension in Utah. College of Agriculture hosts Utah Commissioner of Agriculture: LuAnn Adams, Logan, UT.

92. **Thacker, E. T.** 2014. Range Mini-school. Utah Association of County Agriculture Agents, Price, UT.
93. **Thacker, E. T.** 2014. Sagebrush ecology and management. 4-H Educators Conference, Wayne County, UT.
94. **Thacker, E. T.** 2014. Range Management in Utah. Castle Country Crop School, Price, UT.

2013

95. **Thacker, E. T.** 2013. Ecology and management of snakeweed. Arizona Strip Noxious Weed Workshop, Hurricane, UT.
96. **Thacker, E. T.** 2013. Rangeland Extension in Utah. Utah Cattlemen's Association Annual Meeting, Salt Lake City, UT.
97. **Thacker, E. T.** 2013. Range Extension in Utah. Utah Section Society for Range Management, Cedar City, UT.
98. **Thacker, E. T.** 2013. Brush management in the southern Great Plains: Past present and future. Society for Range Management, Oklahoma City, OK.

Before 2013

99. **Thacker, E. T.** 2012. Prairie grouse habitat management: Impacts and implications. Natural Resource Ecology and Management Department Seminar. Oklahoma State University, Stillwater, OK.
100. **Thacker, E. T.** 2012. Evaluation of northern bobwhite in Western Oklahoma. Kansas Department of Wildlife Parks and Tourism, Annual Fish and Wildlife Division, Salina, KA.
101. **Thacker, E. T.** 2012. Range management in the southern Great Plains: The use of prescribed fire and grazing. Coffee Shop Panel Discussion, Comanche Pool Prairie Resource Foundation, Wilmore, KA.
102. **Thacker, E. T.,** R. L. Gillen, S. A. Gunter, and T. L. Springer. 2011. Herbicide control of sand sagebrush: Impacts on lesser prairie-chicken habitat. Oklahoma Section, Society for Range Management, Woodward, OK.
103. **Thacker, E. T.,** S. A. Gunter, T. L. Springer, T. A. Messmer, A. Huber, R. Christensen, M. R. Guttery. 2010. Prairie grouse habitat and habitat management. Natural Resource Ecology and Management Department Seminar, Oklahoma State University, Stillwater, OK.

CONTRIBUTED PRESENTATIONS

* = Graduate student (my lab) † = Graduate student/post-doc (other lab)

2024

1. **Thacker, E. T.**, D. Stoner. 2024. Distribution of competition potential between native ungulates and free-roaming equids on western rangelands. Society for Range Management, Reno, NV.
2. *Backen, C., **E. T. Thacker**, 2024. Greater Sage-grouse nest success is more strongly associated with climatic variability than vegetation productivity. Society for Range Management, Reno, NV.
3. †Stahl, M., K. E. Veblen, M. Duniway, E. T. Thacker J. Villalba. 2024. Protecting rangelands in a changing climate: Comparing Raramuri Criollo landscape use patterns with red Angus cattle in the Colorado Plateau. Society for Range Management, Reno, NV.

2023

4. *Clifford, A., **E. T. Thacker**, T. Monaco, K. Veblen, K. Jensen, K. Gunnell, M. Landeen. 2023 Post-fire recovery and cheatgrass resistance of perennial grasses used for restoration. Society for Range Management, Boise, ID.
5. Stahl, M., K. Veblen, T. Avgar, J. Villalba, S. Reed, **E. T. Thacker**, M. Duniway. 2023 Protecting rangelands in a changing climate: Using a heritage cattle breed to maintain ecosystem function under livestock production. Society for Range Management, Boise, ID

2022

6. Wilmer, H. K. Suding, P. Adler, C. Greene, D. Ferguson, A. Felton, **E. T. Thacker**, R. Shriver, J. Bradford. 2022 Ranching, rangelands, and resilience: Moving from buzzwords to boundary objects. Society for Range Management. Albuquerque, NM.

2020

7. **Thacker, E. T.**, 2020 Sagebrush Ecology on Parker Mountain. Utah County Agricultural Agents Summer Meeting. Bicknell, UT
8. **Thacker, E. T.** 2020 Fact vs. Fiction of Juniper Treatments, USU Stock and Flock Webinar Series.
9. **Thacker, E. T.**, 2020. Riparian grazing and restoration. Wyoming Ag Days. Evanston, WY 2020
10. †Garn, C. D. Spielmaker, **E. T. Thacker**, K. Hall. Evaluating the knowledge, attitudes, and perceptions of ranchers and BLM managers or specialists (Poster). Society for Range Management Annual Meeting, Denver, CO.

2019

11. Ransom, C., **E. T. Thacker**, M. D. Palmer. 2019. Herbicide control of death camas.

International Symposium on Poisonous Plants, St. George, UT.

12. William, P., **E. T. Thacker**, 2019. Evaluation of fuels breaks in West Box Elder County, UT. Poster On The Hill, Utah State Capital.

2018

13. Dahlgren, D., **E. T. Thacker**, 2018. Forest grouse ecology and management in the western US International Grouse Symposium, Utah State University, IUCN, Logan, UT.
14. Palmer, M. D., **E. T. Thacker**. 2018. Livestock Grazing: an environmentally friendly and economical solution to maintaining fire breaks. Western Region Annual Meeting NACAA, Cody, WY.
15. Dahlgren, D., **E. T. Thacker**. 2018. Forest grouse ecology and management in the Bear River Range, Utah. Annual Conference Utah Chapter of The Wildlife Society, UT TWS, Vernal, UT.
16. Danvir, R., G. E. Simmonds, E. D. Sant, **E. T. Thacker**, R. Larsen. A. J. Svejcar, R. D. Ramsey. F. D. Provenza, C. Boyd. 2018. Upland and riparian cover under strategic grazing, continuous stocking, and multi-year rest. Society for Range Management Annual Meeting, Sparks, NV.
17. Dahlgren, D., T. A. Messmer, S. Frey, **E. T. Thacker**. 2019. Utah's sage-grouse habitat guidelines. Annual Conference Utah Chapter of The Wildlife Society, UT TWS, Vernal, UT.
18. Monaco, T. A., K. E. Veblen, **E. T. Thacker**, †R. Mann. 2018. Native Shrub control and establishment of mixed-species seedings on eight ecological sites in Utah. Society for Range Management Annual Meeting, Sparks, NV.
19. †Taylor, J., †J. Butler, K. E. Veblen, **E. T. Thacker**, J. J. Villalba. 2018. Manipulation of elk browsing to improve rangeland vegetation. Society for Range Management Annual Meeting, Sparks, NV (poster).
20. **Thacker, E. T.** 2018. Moving forward, why livestock producers should be interested in riparian habitat. Society for Range Management Annual Meeting, Sparks, NV.

2017

21. **Thacker, E. T.** 2017. Why utilization matters: Becoming a grass nerd. Uinta-Wasatch-Cache National Forest Permittee Workshop, Logan, Utah.
22. **Thacker, E. T.** 2017. Grass the stockman's crop. Fishlake National Forest Permittee Workshop, Richfield, Utah.
23. **Thacker, E. T.** 2017. Managing drought: grass physiology and drought. Ashley National Forest Permittee Workshop, Vernal, Utah.

24. †Taylor, J. R., K. E. Veblen, **E. T. Thacker**, J. J. Villalba. 2017. Energy and protein-based supplements improve decadent sagebrush use by elk. Society for Range Management Annual Meeting, St. George, Utah (poster).
25. †Starns, H. D., R. D. Elmore, S. D. Fuhlendorf, T. J. Hovick, **E. T. Thacker**, D. Twidwell. Effects of fuels management techniques on fire suppression capability and prairie-chicken habitat. Society for Range Management Annual Meeting, St. George, UT.
26. †Stonecipher, C., **E. T. Thacker**, K. Welch, M. H. Ralphs. 2017. Long-term evaluation of cool-season grasses seeded within the sagebrush steppe in central and northern Utah. Society for Range Management Annual Meeting, St. George, UT (Poster).
27. Ramsey, R. D., C. McGinty, †T. Thompson, K. Hulvey, **E. T. Thacker**. 2017. Estimation of shrub height using high-resolution ortho imagery and photogrammetrically derived point clouds. Society for Range Management Annual Meeting, St. George, UT.

2016

28. **Thacker, E. T.** 2016. Grazing as a fuels reduction treatment. Utah Section of Society for Range Management, Richfield, UT.
29. **Thacker, E. T.** 2016. Utah State Rangeland Extension Update. Utah Grazing Improvement Program Quarterly Meeting, Provo, UT.
30. *Decker, T. W., **E. T. Thacker**. 2016. Long-term impact of targeted grazing on native and annual grasses. Society for Range Management Annual Meeting, Corpus Christi, TX.
31. **Thacker, E. T.** 2015. Current status of wild horses and burros in Utah. Utah Association of County Governments, St George, UT.
32. †Starns, H. D., R. D. Elmore, S. D. Fuhlendorf, T. J. Hovick, **E. T. Thacker**, D. Twidwell, 2016. The effects of patch-burning on wildland fuels management. Society for Range Management Annual Meeting, Corpus Christi, TX.
33. †Starns, H. D., R. D. Elmore, S. D. Fuhlendorf, T. J. Hovick, **E. T. Thacker**, D. Twidwell, 2016. Patch-burning supports heterogeneity of prairie-chicken habitat. Society for Range Management Annual Meeting, Corpus Christi, TX.
34. †Thomas, K. G., K. Hulvey, **E. T. Thacker**. 2016. A comparison of two methods for sampling herbaceous cover: A Rich County, UT case study. Society for Range Management Annual Meeting, Corpus Christi, TX (Poster).
35. †Bielski, H., D. Twidwell, R. D. Elmore, D. M. Engle, S. D. Fuhlendorf, T. J. Hovick, **E. T. Thacker**. 2016. Flammability thresholds of eastern redcedar as a potential indicator for heightened wildfire danger. Society for Range Management Annual Meeting, Corpus

Christi, TX.

2015

36. **Thacker, E. T.** 2015. Weed Tracker App: Using sportsman for early medusahead detection. Utah Chukar Foundation Board Meeting, Salt Lake City, UT.
37. **Thacker, E. T.** 2015. Grazing as a fuels treatment how does it all fit, Utah Association of County Agricultural Agents, Toole County, UT.
38. *Decker, T. W., **E. T. Thacker.** 2015. Relating grazing utilization to fuels properties in a sagebrush bunchgrass community. Society for Range Management Annual Meeting, Sacramento, CA (poster).
39. †Starns, H. D., S. D. Fuhlendorf, T. J. Hovick, **E. T. Thacker**, D. Twidwell, R. D. Elmore. 2015. Impacts on prairie-chicken habitat from management of rangeland fuels. Society for Range Management Annual Meeting, Sacramento, CA.
40. Twidwell, D., W. K. Smith, J. Haggerty, S. Running, D. Naugle, S. D. Fuhlendorf, **E. T. Thacker**, †C. L. Wonkka. 2015. Energy development in rangelands part 1: A call for a disciplinary shift. Society for Range Management Annual Meeting, Sacramento, CA.
41. †Braithwaite, †H., †T. M. Bateman, J. J. Villalba, K. E. Veblen, **E. T. Thacker.** 2015. Identification of diet supplements for elk management. Society for Range Management Annual Meeting, Sacramento, CA.
42. Allred, B. A., D. Twidwell, W. K. Smith, J. Haggerty, S. Running, D. Naugle, S. D. Fuhlendorf, **E. T. Thacker**, C. L. Wonkka. Energy Development on rangelands, part 2: Impacts on ecosystem services. 2015. Society for Range Management Annual Meeting, Sacramento, CA.

2014

43. **Thacker, E. T.** 2014. Livestock distribution in Rich County. Rich County Coordinated Resource Management Group, Randolph, UT.
44. **Thacker, E. T.** 2014. Rangeland Monitoring. Utah Cattleman's Association Annual Meeting, Salt Lake City, UT.

2013

45. †Tanner, E. P., R. D. Elmore, C. A. Davis, S. D. Fuhlendorf, **E. T. Thacker.** 2013. Comparative ecology of northern bobwhite and scaled quail in a sand sagebrush community. 67th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies, Oklahoma City, OK.
46. †Orange J. P., C. A. Davis, R. D. Elmore, S. D. Fuhlendorf, **E. T. Thacker.** 2013. Northern bobwhite (*Colinus virginianus*) and scaled quail (*Callipepla squamata*) chick

survival in western Oklahoma. 67th Annual Southeastern Association of Fish and Wildlife Agencies Conference, Oklahoma City, OK.

Before 2013

47. †Carroll, J. M, C. A. Davis, R. D. Elmore, S. D. Fuhlendorf, **E. T. Thacker**. 2012. Quail research update. Department of Natural Resource Ecology and Management, Oklahoma State University, Stillwater, OK.
48. **Thacker, E. T.**, 2011. Wildlife use and management of old-world bluestem pastures. 2011. Old World Bluestem Management Conference. Southern Plains Range Research Station, Woodward, Oklahoma.
49. **Thacker, E. T.**, R. L. Gillen, S. A. Gunter, T. L. Springer. 2011. Herbicide control of sand sagebrush: Impacts on lesser prairie-chicken habitat. Society for Range Management Annual Meeting, Billings, MT.
50. Gunter, S. A., T. L. Springer, E. T. Thacker. 2010. Effects of sand sagebrush control on stocker cattle performance on a southern mixed prairie community. 4th Grazing Livestock Nutrition Conference, Estes Park, CO.
51. **Thacker, E. T.**, T. A. Messmer, A. Huber, R. Christiansen, N. Gruber, M. R. Guttery, and B. Maxfield. 2010. Greater sage-grouse brood responses to prescribed fire in northeastern Utah. Society of Range Management, Denver, CO.
52. Messmer, T. A., D. K. Dahlgren, S. N. Frey, M. R. Guttery, **E. T. Thacker**. 2010. Managing Greater sage-grouse habitats using the cow, plow, axe, and fire: Lessons from Leopold. Society of Range Management, Denver, CO.
53. **Thacker, E.T.**, D. R. Gardner, T. A. Messmer, M. R. Guttery, D. K. Dahlgren. 2008. Using gas chromatography to determine wintering greater sage-grouse diets. The Wildlife Society Annual Meeting, Monterey, CA.
54. **Thacker, E. T.**, D. R. Gardner, T. A. Messmer, M. R. Guttery, D. K. Dahlgren. 2008. Using gas chromatography to determine wintering greater sage-grouse diets. Western Association of Fish and Wildlife Agencies Sage-grouse and Sharp-tailed Grouse Technical Committee, Mammoth Lakes, CA.
55. **Thacker, E. T.**, T. A. Messmer. 2008. Research Update: Results from 2008 field season. Box Elder Adaptive Management Sage-grouse Local Working Group, Park Valley, UT.
56. **Thacker, E. T.**, T. A. Messmer. 2008. An evaluation of small-scale prescribed fire on sage-grouse in a mountain big sagebrush community in northeastern Utah. Uinta Basin Adaptive Management Local Working Group Meeting, Vernal, UT.

57. Dahlgren, D. K., **E. T. Thacker**, T. A. Messmer. 2007. Use of bird dogs in prairie grouse research: field case study. Prairie Grouse Technical Council, Chamberlain, SD.
58. **Thacker, E. T.**, T. A. Messmer. 2007. Research update: Results from 2007 field season. Box Elder Adaptive Management Sage-grouse Local Working Group, Park Valley, Utah.
59. **Thacker, E. T.** 2007. Evaluation of habitat use and habitat stability of northern Utah's sage-grouse and the effects of sagebrush thinning treatments on sage-grouse pre-laying and brooding habitats. Inaugural Sage-grouse Summit, Salt Lake City, UT.
60. **Thacker, E. T.**, T. A. Messmer. 2007. Research update: Results from 2007 field season. Box Elder Adaptive Management Sage-grouse Local Working Group, Park Valley, UT.
61. **Thacker, E. T.**, M. H. Ralphs, C. A. Call. 2005. Evaluation of four ecological states within a shrub-steppe community to resist snakeweed invasion. Society of Range Management, Ft Worth, TX.

EXTENSION ACTIVITIES: Field Tours

2024

1. FREES Network Field Tour Elko, NV 2024

2022

2. Central Utah Grazing Expo Tour. Richfield, UT, 2022
3. AZ/UT Range Livestock Tour. Hurricane, UT, 2022
4. Agriculture and Natural Resources County Faculty Inservice, Range and Wildlife USDA Facility Tours, Logan, UT 2022
5. 4-H Mustang Camp, Toole and Delta UT 2022

2021

6. AZ/UT Range Livestock Tour. Hurricane, UT, 2021
7. Central Utah Grazing Expo Tour. Richfield, UT, 2021
8. West Box Elder Conservation Resource Management Group. Park Valley, UT, 2021

2020

9. Field-based rangeland Monitoring, Juab County, UT 2020
10. Parker Mountain Sagebrush and sage-grouse. Wayne County, UT. 2020

2019

11. Box Elder Review: The success of collaborative sagebrush management, Box Elder County, UT, 2019
12. Sagebrush Tour, Utah Division of Wildlife Resources, Sevier, UT 2019

2018

13. Beef Basin Field Tour: Sagebrush planting review, San Juan County, UT, 2018
14. Society for Range Management Range Olympics, Dixie National Forest. 2018
15. Box Elder CRM Fuels treatment Field Tour, Park Valley, UT 2018
16. Beef Basin Restoration Field Tour, San Juan County, UT 2018

2017

17. Wild Horse and Burro Summit Field Tour, Delta, UT, 2017
18. Ashley National Forest Monitoring Field Day, Daggett, UT, 2017
19. Ashley National Forest Monitoring Field Day, Uintah County, UT, 2017
20. Partnering to Conserve Sagebrush Rangelands in Utah. Intermountain Joint Venture, Box Elder County, UT, 2017

2016

21. Grazing Management Field Day: Considerations for using grazing as a fuels reduction treatment, Sanpete County, UT, 2016
22. Parker Adaptive Resource Management Field Tour: Mytoge Mountain Project, Wayne County, UT, 2016
23. Rich County Coordinated Resource Management Group Annual Field tour, Rich County, UT, 2016

2015

24. Six County Association of Government Natural Resources Field Day: Sagebrush management and sage-grouse, Parker Mountain, UT, 2015
25. Arizona Strip Range/Livestock Field Tour, Washington County, UT, 2015
26. Utah Agricultural County Agents Association Summer Field Tour: Sagebrush treatments and seedings, Toole County, UT, 2015
27. Logan Canyon Grazing Association/USFS Monitoring Field Tour, Cache County, UT, 2015

28. Black Grass Bug Tour: Box Elder County Damage Assessment, Box Elder County, UT, 2015
29. West Box Elder Coordinated Resource Management Group Summer Tour: Impacts of juniper treatments and sagebrush removal, Park Valley, UT, 2015

2014

30. Utah State University Research Field Day at Camp Williams: Targeted grazing for fuels reduction, Bluffdale, UT, 2014
31. Parker Adaptive Resource Management Local Working Group Lek Counts. Parker Mountain, UT, 2014
32. Utah 4-H Educators Sage-grouse Lek viewing, Wayne County, UT, 2014
33. Black Grass Bug Damage Tour, Box Elder County, UT, 2014
34. Iron Will Family Day at Camp Williams, Bluffdale, UT 2014
35. Parker Mountain Local Working Group Summer Tour. Parker Mountain, UT, 2014
36. Oklahoma State University Graduate Student Rangeland Issue Tour, Wayne and Duchesne County, UT, 2014
37. Cache National Forest and Trout Unlimited. Future Projects/riparian tour. Cache County, UT,

2014

38. Arizona Strip Range/Livestock Field Tour, Kane and Washington County, UT, 2014

2013

39. Utah Sage-grouse Implementation Team Field Tour, Box Elder County, UT, 2013
40. Quail Field Day, Packsaddle Wildlife Management Area, Ellis County, OK, 2013

Before 2013

41. Patch burning projects and rangeland management in the Southern Great Plains for Arkansas State University: Management of South Western Rangelands, Woodward County, OK, 2010
42. Sand Sagebrush treatments at the Southern Plains Experimental Range, Woodward County, OK, 2010
43. Tour of the Southern Plains Experimental Range for Oklahoma (Farm Bureau), Range management techniques for lesser prairie-chicken habitat, Woodward County, OK, 2010

EXTENSION ACTIVITIES: Workshops/Symposiums

2024

1. FREES Network Summit, Elko NV, 2024
2. Wild Equine Science Roundup Symposium, Society for Range Management, Reno, NV 2024

2023

3. SRM Grazing Campfire, Society for Range Management Meeting, Boise, ID 2023
4. Low-Tech Wet Meadow restoration. Webinar, 2023
5. Sustainable Grazing Institute, Tremonton, UT 2023
6. Central Utah Grazing Expo, Richfield and Bicknell, UT 2023

2022

7. AZ/UT Range Livestock Tour. Orderville & Hurricane, UT 2022
8. Smart Foodscapes, Annual Stakeholder meeting, Logan, UT 2022
9. Wild Horse and Burro Summit, St George, UT, 2022
10. Central Utah Grazing Expo, Richfield and Price, UT 2022
11. Sustainable Grazing Institute, Kaysville, UT 2022
12. Range and Wildlife County Inservice. Logan, UT 2022

2021

13. AZ/UT Range Livestock Tour. Orderville & Hurricane, UT, 2021
14. Central Utah Grazing Expo. Nephi & Richfield, UT, 2021
15. Sustainable Grazing Institute, Panguitch, UT 2022

2020

16. Wild Horse and Burro Summit. Cody, WY 2020
17. Dagget County Grazers, Manilla, UT 2020

2019

18. Utah All Lands-All Hands Summit. Salt Lake City, UT, 2019
19. Managing Free-roaming Equids and Sustainable Ecosystems, Reno, NV, 2019

20. 41st Annual Arizona Strip Range Livestock Workshop, Kanab and Orderville, UT, 2019
21. The Sustainable Grazing Institute: Merging the art and science of management intensive grazing, Ephraim, UT 2019
22. Carbon County Beef Educators, Price, UT 2019
23. San Juan Beef Educators, Blanding, UT 2019
24. Box Elder Beef Educators, Tremonton, UT 2019
25. Uintah Beef Educators, Vernal, UTY 2019
26. Range Management Workshop, Samarkand, UZ 2019

2018

27. 40thth Annual Arizona Strip Range Livestock Workshop, Kanab and Orderville, UT, 2018
28. The Sustainable Grazing Institute: Merging the art and science of management intensive grazing, Panguitch, UT 2018
29. Beef Producer Education Series, Grazing Management, Tremonton, UT, 2018
30. Beef Producer Education Series, Fuels and Grazing, Tremonton, UT, 2018
31. Cache Beef Producer Meeting, Management of Grazing Operations, Logan, UT, 2018
32. Utah Grazing Working Group: Permittee Monitoring, Cedar City, UT, 2018
33. Utah Grazing Working Group: Permittee Monitoring, Green River, UT, 2018
34. Utah Grazing Working Group: Permittee Monitoring, Richfield, UT, 2018
35. Second Annual Spring Beef Workshop. Blanding, UT, 2018
36. Restoring and Managing the "Emerald Islands" of the Sagebrush Sea: New Science, Sticks and Stones, and the Eager Beaver: Society for Range Management Annual Meeting, Sparks, NV 2018

2017

37. Piute County Livestock Production Workshop, Junction, UT, 2017
38. Wild Horse Forum, Utah Society for Range Management, Midway, UT, 2017
39. Wild Horse and Burro Summit, Salt Lake City, UT, 2017

40. Sage-grouse Habitat Assessment Framework, Nephi, UT, 2017
41. Ashley National Forest Permittee Workshop: Understanding your Grazing Permit, Daggett, UT, 2017
42. Ashley National Forest Permittee Workshop: Understanding your Grazing Permit, Vernal, UT, 2017
43. Fishlake National Forest Permittee Workshop: Understanding Your Grazing Permit, Richfield, UT, 2017
44. 39th Annual Arizona Strip Range Livestock Workshop, Kanab, and Orderville, UT, 2017
45. Uinta-Wasatch-Cache National Forest Permittee Workshop: Understanding your Grazing Permit, Logan, UT, 2017

2016

46. Sagebrush Ecosystem Conservation, All Hands, All Lands, Salt Lake City, UT, 2016
47. Ashley National Forest Permittee Monitoring Workshop, Daggett County, UT, 2016
48. Ashley National Forest Permittee Monitoring Workshop, Uinta County, UT, 2016
49. Utah Section Society for Range Management, Rangeland Science Roundup, Richfield, UT, 2016
50. Kyrgyzstan Range Management Tour of Northern Utah. Box Elder and Rich County, UT, 2016
51. 38th Annual Arizona Strip Range Livestock Workshop, Kanab, and Orderville, UT, 2016

2015

52. Dixie National Forest Understanding your Forest Service Permits, Cedar City, UT, 2015
53. Wild Horses and Burros in Utah, Utah Association of Counties, Saint George, UT, 2015
54. FFA Western National Rangeland Judging, Orderville, UT, 2015
55. 37th Annual Arizona Strip Range Livestock Workshop Kanab, and Orderville, UT, 2015
56. Weber River Watershed Range Workshop, Morgan, UT, 2015
57. Vulnerability Assessment of Ecological Impacts of Climate Change in Sagebrush Steppe, Society for Range Management Annual Meeting, Sacramento, CA, 2015

2014

58. 36th Annual Arizona Strip Range Livestock Workshop, Kanab and Orderville, UT, 2014

EXTENSION ACTIVITIES: Popular Press and News Media

1. Utah Public Radio, Wild Horse Brigade. Radio interview 9/8/2021. <https://www.upr.org/news/2021-09-08/wild-horse-fire-brigade>
2. The County Seat, Wild Horse, and Burro Summit. Appeared on show 8/24/2017 <https://www.youtube.com/watch?v=qiOf1h1ct5M>
3. USU officials defend wild horse and burro conference. Interviewed and quoted by Kevin Opsahl Herald-Journal 8/21/2017 https://www.hjnews.com/allaccess/usu-officials-defend-wild-horse-and-burro-conference/article_b20d1e8b-4649-56c4-83a4-323dc83a2543.html
4. Why Oklahoma's High Plains Are Turning into a Sea of Juniper. Interviewed and quoted by Kyle Walker 11/16/2015. <https://www.inverse.com/article/8198-why-oklahoma-s-high-plains-are-turning-into-a-sea-of-juniper>
5. Southern Utah range conference provides lessons on using grazing to reduce wildfire threats. Interviewed and quoted by Matt Hargreaves, Utah Farm Bureau News 05/2015.
6. Q & A Livestock grazing on public lands. Provided information on stocking rates for Brett Prettyman, The Salt Lake Tribune 5/20/2014. <https://archive.sltrib.com/article.php?id=30963979&itype=storyID>
7. As Western range suffers, should Utah cull wildlife? Interviewed and quoted by Brett Prettyman, The Salt Lake Tribune 6/11/2014. <https://archive.sltrib.com/article.php?id=30942924&itype=storyID>
8. Conflict on the Range Wildlife and Livestock. Interviewed by Cool Science Radio KPCW Radio Station. Park City, Utah 5/22/2015.
9. Impacts of the Rockport fire on plant communities and wildlife. Interviewed by This Green Earth KPCW Radio Station. Park City, UT 9/3/2013.

EXTENSION ACTIVITIES: Webinars, Social Media, and Technology

Webinars

1. Beef Educators Podcast: Public Lands and Drought Management. 5/6/2021. <https://www.podbean.com/ew/pb-8bh5e-102c892>

2. Beef Educators Podcast: Compounding Effects of Drought. 4/23/2021
<https://www.podbean.com/ew/pb-ievia-1018e91>
3. Key Drought Management Decisions. Webinar, 5/12/2021.
4. Answering Questions about the Appropriateness of Woody Vegetation Treatments. Webinar, 10/30/2020 https://www.youtube.com/watch?v=P40vLX_8YdQ
5. Restoring and Managing the "Emerald Islands" of the Sagebrush Sea: New Science, Sticks and Stones, and the Eager Beaver. 2/01/2017 <https://www.sagegrouseinitiative.com/free-live-broadcast-range-management-2018/>
6. Western Governors Association, National Forest and Rangeland Management Initiative Webinar: The Future of Wild horse Management. 11/10/2016
<http://westgov.org/news/watch-national-forest-rangeland-management-initiative-webinar-the-future-of>
7. Sagebrush Ecosystem Conservation: All Hands All Lands Conference Proceedings. 2/23/2016 <https://sagebrushconference2016.org/Proceedings/Agenda.cfm>
8. **Thacker, E. T.**, D. K. Dahlgren, W. James. 2015. Weed Tracker App (IOS operating system) Obsolete.
9. **Thacker, E. T.**, B. Burritt. 2015. Drought and Climate web page.
<https://extension.usu.edu/rangelands/pages/drought-and-climate>
10. **Thacker, E. T.** 2014. USU Rangeland Extension Facebook page
<https://www.facebook.com/usurangelandext>

Podcasts

11. USU Beef Educators Podcast: [Drought Recovery](#) 03/27/2023
Downloads: 23
12. USU Beef Educators Podcast: [Public Lands and Drought Management](#) 05/05/2021
Downloads:47
13. USU Beef Educators Podcast: [Compounding effects of drought](#). 04/21/2021
Downloads: 35
14. USU Beef Educators Podcast: [Producers interviews, Kevin Heaton](#) 11/10/2020
Downloads: 80
15. USU Beef Educators Podcast: [Producer Interviews, Recap](#) 09/29/2020
Downloads: 24

16. USU Beef Educators Podcast: [Producer Interviews, John Ferry](#) 9/11/2020
Downloads: 64
17. USU Beef Educators Podcast: [Producer Interviews, Calvin and Rhett Crandall](#) 08/31/2020
Downloads: 48
18. USU Beef Educators Podcast: [Producer Interviews, Christian Peterson](#) 08/31/2020
Downloads: 53
19. USU Beef Educators Podcast: [Drought Podcast Part B](#) 07/07/2020
Downloads: 22
20. USU Beef Educators Podcast: [Drought Podcast Part A](#) 07/07/2020
Downloads: 18
21. USU Beef Educators Podcast: [Understanding Body Condition Score](#) 06/15/2020
Downloads: 23
22. USU Beef Educators Podcast: [Bull Price and Selection](#) 06/15/2020
Downloads: 21
23. USU Beef Educators Podcast: [Introduction to Systems Thinking in Livestock Production](#),
05/21/2020 Downloads: 13

MULTI-STATE RESEARCH PROJECTS

- 2020 – Prsnt Sustainable management of free-roaming equid populations on designated western US landscape WERA1024 (Co-Chair 2024- prsnt).
- 2019 – 2019 Maintaining Resilient Sagebrush & Rural Communities W1188
- 2018 – 2019 Wild horse and burro management W507
- 2017 – 2018 Endangered Species Science and Policy WDC40
- 2015 – 2017 Using Science-Based Solutions in Conservation of Threatened and Endangered Species: Sage-Grouse Case Study W506

AWARDS

- 2016 Utah Section of the Society for Range Management Range Manager of the Year

- 2020 Utah State University Extension, Cooperator of the Year Award.
- 2023 Utah State University Association of Agricultural Agents, USU Extension Specialist Award.

TEACHING EXPERIENCE

Instructure of Record

- 2014 – Prsnt WILD 4000, Principles of Range Management
- 2017 – Prsnt WILD 6900, Principles of Range Management (graduate section)

GRADUATE STUDENT ADVISING

Graduate Students (Current)

- Rory Eggleston, MS Wildlife Science, 2022 – Prsnt
- Ruger Carter, MS Wildlife Science, 2022 – Prsnt
- Codi Backen, MS, Wildlife Science, 2022 – Prsnt
- Will Harrod, MS, Wildlife Sciences, 2022 – Present
- Sebastian Schriber, Range Science, 2023 – Present

Graduate Students (Completed)

- Travis Decker, MS of Range Science, 2014 – 2018: "Targeted-grazing as a fuels treatment: evaluation of vegetation dynamics and utilization levels." Currently employed by the Bureau of Land Management
- Nathan Dulfon, MS of Range Science, 2014 – 2017: "Sagebrush ecology of Parker Mountain, Utah." Currently employed by the US Forest Service
- Ruger Carter, MS of Range Science, 2018 – 2020: "Harvest Efficiency of Forage Grazed by Cattle and Influence of Pinyon and Juniper Treatments on Vegetation Cover on the Grand Staircase Escalante National Monument" Currently employed USU PhD Graduate Assistant
- Mike Anderson, MS of Range Science, 2018 – 2020: "Comparative studies in Rangeland Management: Greater Sage-grouse Monitoring and Cattle Distributions in Rich County, Utah."

Currently employed by Open Range Consulting.

- Elizabeth Bailey, MS Ecology (co-advisor) 2018 – 2021: "Restoration of Mountain Big Sagebrush Communities in Former Agricultural Lands." Currently employed as Forest Stewards Guild Southwest Project Coordinator
- Adam Clifford, MS of Range Science, 2020 – 2023: An evaluation of stress tolerance in restoration plant species in response to fire, drought, and invasive plants through the lens of functional traits." Currently employed by Cirrus Ecological Solutions.
- Rayce Bryan, MS of Range Science, 2019 – 2022: "Assessing Post-Fire Revegetation Efforts in Box Elder County, Utah, Using the Rangeland Analysis Platform." Currently employed as Western-enviro Consultant/Surveyor
- Codi Backen, MS of Wildlife Science, 2021 – 2025 "Greater Sage-Grouse Habitat Dynamics and Grazing, a Study of Vegetation Indices and Survival" Currently employed as habitat coordinator for Bird Conservancy of the Rockies

EMPLOYEE SUPERVISION

Fulltime and Contract positions

2020 – 2022	Mark Larese-Casanova. Range Extension Educator
2017 – 2021	Calee Lott (Garn). Sagebrush Ecosystem Alliance Coordinator. Responsible for conservation coordination between public land managers and livestock producers and coordinating conservation efforts between federal and state agencies.
2015 – 2017	Todd Black. Todd was a semi-permanent contract employee who oversaw field crews working on the USFS and BLM Sage-grouse Habitat Assessment framework across Northern UT.
2016-2018	Jamilee Holmstead. She worked as a technical writer who helped facilitate and write the Utah Monitoring Guide and factsheets.

Internships

2017 – 2018	Katlyn Uhart. Extension Internship. Collected and synthesized information on the impacts of wild horses on wildlife habitat, produced factsheet (coauthor review)
2015 – 2016	Calee Lott (Garn), Seth Schneringer. Extension Internship. Summarized

and synthesized sagebrush treatment data to help demonstrate the costs and benefits of sagebrush management

SERVICE

Professional Affiliations

- 2000 – Prsnt Member, UT Society for Range Management
- 2000 – Prsnt Member, Utah Section of Society for Range Management
- 2009 – 2018 Member, The Wildlife Society
- 2013 – 2018 Member, The Wildlife Society, Range Wildlife Working Group

Professional Leadership Positions

- 2020 – 2023 Membership chair, Utah Section for Range Management
- 2019 – 2020 Past President, Utah Section for Range Management
- 2018 – 2019 President, Utah Section for Range Management
- 2018 – 2019 President, Range Science Education Council
- 2017 – 2018 Secretary, Range Science Education Council
- 2017 – 2018 Vice President, Utah Section of Society for Range Management

Professional Committees

- 2020 – 2024 Society for Range Management Accreditation Committee (member)
- 2019 – Prsnt Cooperative Wildlife Management Advisory Committee (member). Utah Division of Wildlife Resources.
- 2013 – Prsnt Utah Grazing Improvement Program, Board Member and Technical Committee Member
- 2014 – 2019 Leopold Conservation Award Selection Committee

- 2017 – 2018 International Grouse Symposium Planning Committee (Field Tours)
- 2018 Congressman Chris Stewart's Wild Horse Round Table
- 2016 – 2017 Society for Range Management St. George Annual Meeting Planning Committee (Program Committee)
- 2014 – 2018 Society for Range Management, Range Science Education Council
- 2010 – 2018 Society for Range Management, Wildlife Habitat Committee
- 2014 – 2015 Utah Division of Wildlife Resources Mule Deer Planning Committee
- 2010 – 2013 Section of Society for Range Management, Under Graduate Range Management Exam Committee
- 2012 – 2013 Society for Range Management Oklahoma City Annual Meeting Planning Committee (Program Committee)

Service to Utah State University

- 2023-2024 Development Team for Henry Jorgenson Endowed Chair of Wildlife, Range and Livestock Management
- 2024 Development Team for The Gregg and Julie Simmons Graduate Assistantship
- 2019 – Prsnt Range Ecology and Management Undergraduate ad
- 2024 – Prstn QCNR Dean's Leadership Council
- 2024 Wildlands Resources Dept. Head Search Committee, Wildland Resources Dept. Utah State University
- 2023 Berryman Institute Revisioning Committee
- 2020 – 2023 USU Faculty Senate QCNR Representative (Alternate).
- 2022 Assistant Professor: Wildland Fire Extension Specialist Search Committee. Wildland Resources Department, Utah State University
- 2022 Extension Assistant Professor Agriculture and Natural Resources, Rich County. Agriculture and Natural Resources Department, Utah State University
- 2022 Extension Assistant Professor Agriculture and Natural Resources Duchesne County.

Agriculture and Natural Resources Department, Utah State University

- 2022 Extension Assistant Professor, Agriculture and Natural Resources Box Elder County. Agriculture and Natural Resources Department, Utah State University
- 2022 QCNR College of Natural Resources Dean Search Committee. Quinney College of Natural Resources, Utah State University
- 2021 Extension Grant Review Panel, Chair.
- 2021 Extension Assistant Professor Agriculture and Natural Resources, Garfield County. Agriculture and Natural Resources Department, Utah State University
- 2021 Extension Assistant Professor Agriculture and Natural Resources, Sevier County. Agriculture and Natural Resources Department, Utah State University
- 2019 Juab County Agricultural Extension Agent Search Committee, Southern Region Extension, Utah State University
- 2019 Summit County Agricultural Extension Agent Search Committee, Northern Region Extension, Utah State University
- 2019 Wildlands Resources Dept. Head Search Committee, Wildland Resources Dept. Utah State University
- 2018 Rangeland Education Search Committee, Wildland Resources Dept. Utah State University (Chair)
- 2017 – 2018 Utah State University Range Club (co-advisor)
- 2017 Wildlife Ecologist (Uinta Basin Regional Campus) Search Committee, Wildland Resources Department, Utah State University
- 2017 Box Elder County Agricultural Extension Agent Search Committee, Northern Region Extension, Utah State University
- 2017 Rich County Agricultural Extension Agent Search Committee, Northern Region, Utah State University
- 2016 – 2017 Fire Ecologist Search Committee, Wildland Resources Department, Utah State University
- 2016 Utah State University, Extension Grant Review Committee (Chair).

