

## Kari E. Veblen

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### **EDUCATION**

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**Ph.D., Ecology**, University of California at Davis, 2008. Dissertation: Livestock and wildlife effects on the successional development of a savanna landscape mosaic in East Africa. Advisor: Dr. Truman Young

**B.A., Environmental, Population, and Organismic Biology**, University of Colorado at Boulder, 1998. Summa cum Laude. Thesis: Native plant restoration in stands of *Eragrostis chloromelas* in southeastern Arizona. Advisor: Dr. Jane Bock

### **PROFESSIONAL EXPERIENCE**

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- 2022 - present** Professor, Dept. of Wildland Resources and Ecology Center, Utah State University
- 2017 - 2022** Associate Professor, Dept. of Wildland Resources and Ecology Center, Utah State University
- 2011 - 2017** Assistant Professor, Dept. of Wildland Resources and Ecology Center, Utah State University
- 2010 - 2019** Research Associate, Dept. of Land Resource Management and Agricultural Technology, University of Nairobi
- 2008 - 2011** Research Ecologist, USGS Forest and Rangeland Ecosystem Science Center, Supervisor: Dr. David Pyke
- 2007 - 2008** Contractor, USGS Forest and Rangeland Ecosystem Science Center, Supervisor: Dr. David Pyke
- 2005 - 2006** Project Manager, Kenya Long-Term Exclosure Experiment (KLEE), Mpala Research Centre, Kenya, Supervisor: Dr. Truman Young
- 1998 - 2000** Community Forester, Peace Corps Ghana

### **PUBLICATIONS**

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\* = grad student/post-doc advisee (my lab)      † = grad student/post-doc collaborator (other lab)  
\*\* = undergraduate student advisee (my lab)

#### ***Peer-reviewed manuscripts in review and advanced stages of preparation:***

Rohal, C.B., B. Duncan\*, J. Follstad Shah, **K.E. Veblen**, and K.M. Kettenring. Targeted grazing reduces a widespread wetland invader with minimal nutrient impacts, yet native community recovery is limited (in revision, *Journal of Environmental Management*).

- Bailey, E.C.\*, E.T. Thacker, T.A. Monaco, and **K.E. Veblen**. Transplanted “wildlings” exhibit higher survival than greenhouse-grown tubelings yet both recruit new plants at similar rates (in revision, *BMC Ecology and Evolution*).
- Wells, H.B.M., D. Kimuyu, W.O. Odadi, G.K. Charles, **K.E. Veblen**, L.M. Porensky, C. Riginos, C.R. Ebel, J. Ekadeli, M. Namoni, J. Ekeno, B. Kimiti, S. Kurukura, A.A. Hassan, L.M. Hallett, A.A. Wolf, R.M. Pringle, and T.P. Young. Disturbance hierarchies in a long-term experiment: herbivory, drought, and termites interact to shape Africa savanna (in review, *Ecology Letters*).
- Young, T.P., C. Riginos, D.M. Kimuyu, **K.E. Veblen**, L.M. Porensky, W.O. Odadi, and R.L. Sensenig. Getting better with age: Lessons from the Kenya Long-term Exclosure Experiment (KLEE) (in review, *Ecology Letters*).

### **Peer-reviewed publications:**

1. Condon, L.A., R. Rosentreter, **K.E. Veblen** and P.S. Coates. *In press*. Season of grazing interacts with soil texture, selecting for association of biocrust morphogroups. *Geoderma*.
2. Koutzoukis, S.\*, M. Madsen and **K.E. Veblen**. 2024. Under drought conditions, fungicide seed coating does not increase emergence of two native grass species in sagebrush stands of the Intermountain West. *Restoration Ecology* 32: e13988. <https://doi-org.dist.lib.usu.edu/10.1111/rec.13988>
3. Calzado-Martinez, C.†, M.W. Brunson, S. Koutzoukis\*, J. Baggio, and **K.E. Veblen**. 2023. Addressing barriers to proactive restoration of at-risk sagebrush communities: A causal layered analysis. *Restoration Ecology* 31:e13897. <https://doi-org.dist.lib.usu.edu/10.1111/rec.13897>
4. Koutzoukis, S.\*, D.A. Pyke, M. Brunson, J. Baggio, C. Calzado-Martinez† and **K.E. Veblen**. 2023. Goldilocks forbs: survival is highest outside – but not too far outside – of Wyoming big sagebrush canopies. *Restoration Ecology* 31: e13919 <https://doi-org.dist.lib.usu.edu/10.1111/rec.13919>. **\*\*Editor-in-Chief Pick\*\***
5. Riginos, C.\*, **K.E. Veblen**, E. Thacker, K.L. Gunnell, and T.A. Monaco. 2023. Resistance and resilience framework predicts vegetation responses to shrub reduction treatments in the sagebrush ecosystem. *Rangeland Ecology & Management* 86:35-43. <https://doi-org.dist.lib.usu.edu/10.1016/j.rama.2022.10.008>
6. **Veblen, K.E.**, K.C. Nehring\*, M.C. Duniway, A. Knight, S. Fick†, T.A. Monaco, E.W. Schupp, J.L. Boettinger, J.J. Villalba, C.B. Brungard, and E.T. Thacker. 2022. Soil depth and precipitation moderate soil textural effects on seedling survival of a foundation shrub species. *Restoration Ecology* 30: e13700. <https://doi-org.dist.lib.usu.edu/10.1111/rec.13700>
7. Ebel, C.R.†, M.F. Case, C.M. Werner, L.M. Porensky, **K.E. Veblen**, H.B.M. Wells, D.M. Kimuyu, R.E. Langendorf, T.P. Young, and L.M. Hallett. 2022. Herbivory and drought reduce the temporal stability of herbaceous cover by increasing synchrony in a semi-arid savanna. *Frontiers in Ecology and Evolution* 10. <https://doi.org/10.3389/fevo.2022.867051>
8. Wells, H.B.M.†, L.M. Porensky, **K.E. Veblen**, C. Riginos, L.C. Stringer, A. J. Dougill, M. Namoni, J. Ekadeli, and T.P. Young. 2022. At high stocking rates, cattle do not functionally replace wild herbivores in shaping savanna understory community composition. *Ecological Applications* 32:e2520. <https://doi.org/10.1002/eap.2520>

9. Pilliod, D.S., J.L. Beck, C.J. Duchardt, J.L. Rachlow, and **K.E. Veblen**. 2022. Leveraging vegetation monitoring data for wildlife: from concept to practice. *Rangelands* 44:87-98 <https://doi.org/10.1016/j.rala.2021.09.005>
10. LaMalfa, E.\*, C. Riginos, and **K.E. Veblen**. 2021. Browsing wildlife and heavy grazing indirectly facilitate sapling recruitment in an East African savanna. *Ecological Applications* 31:e02399. <https://doi.org/10.1002/eap.2399>
11. Shackelford, N., G. Paterno, K.L. Suding, and 75 others, including **K.E. Veblen**. 2021. Drivers of seedling establishment success in dryland restoration efforts. *Nature Ecology and Evolution* 5:1283-1290 <https://doi.org/10.1038/s41559-021-01510-3>
12. Charles, G.K.†, C. Riginos, **K.E. Veblen**, D.M. Kimuyu, and T.P. Young. 2021. Termite mound cover and abundance respond to herbivore-mediated biotic changes in an African savanna. *Ecology & Evolution* 11:7226-7238. <https://doi.org/10.1002/ece3.7445>
13. Brungard, C., T. Nauman, M. Duniway, **K. Veblen**, K. Nehring\*, D. White, S. Salley, and J. Anchang. 2021. Regional ensemble modeling reduces uncertainty for digital soil mapping. *Geoderma* 397: 114998. <https://doi.org/10.1016/j.geoderma.2021.114998>
14. Werner, C.M.†, D.M. Kimuyu, **K.E. Veblen**, R.L. Sensenig, E.M. LaMalfa\*, and T.P. Young. 2021. Synergistic effects of herbivores and previous fire on spatial heterogeneity of prescribed grassland burns. *Ecology* 102:e03270. <http://doi.org/10.1002/ecy.3270>
15. **Veblen, K.E.**, E.A. Beaver, and D.A. Pyke. 2020. Context-dependent effects of livestock grazing in deserts of western North America. *Disturbance Ecology and Biological Diversity*. (Eds. E. Beaver, S. Prange, D. DellaSala), pp. 81-105. Boca Raton, FL: CRC Press (Taylor and Francis Group). <https://doi.org/10.1201/9780429095146-4>
16. Liu, L.\*, **K.E. Veblen**, and T.A. Monaco. 2020. Shrub size modulates resource heterogeneity in a sagebrush-steppe ecosystem. *Western North American Naturalist* 80:28-37. <https://doi.org/10.3398/064.080.0104>
17. **Veblen, K.E.** and L.M. Porensky. 2019. Thresholds are in the eye of the beholder: plants and wildlife respond differently to short-term cattle corrals. *Ecological Applications* 29:e01982 <https://doi.org/10.1002/eap.1982> **\*\*Highlighted in the journal *Rangelands*:** <https://www.sciencedirect.com/science/article/pii/S0190052819300963> **\*\***
18. Riginos, C.\*, T.A. Monaco, **K.E. Veblen**, E. Thacker, D. Dahlgren, and T. Messmer. 2019. Potential for post-wildlife recovery of Greater Sage-grouse habitat. *Ecosphere* 10(11):e02870. <https://doi.org/10.1002/ecs2.2870>
19. LaMalfa, E.\*, D.M. Kimuyu†, R.L. Sensenig, T.P. Young, C. Riginos and **K.E. Veblen**. 2019. Tree resprout dynamics following fire depend on herbivory by wild ungulate herbivores. *Journal of Ecology* 107:2493-2502. <https://doi.org/10.1111/1365-2745.13186>
20. Wilder, L.E.\*, **K.E. Veblen**, E.W. Schupp, and T.A. Monaco. 2019. Seedling emergence patterns of six restoration species in soils from two big sagebrush plant communities. *Western North American Naturalist* 79:233-246. <https://doi.org/10.3398/064.079.0209>
21. Paschke, M.W., L.B. Perkins, and **K.E. Veblen**. 2019. Restoration for multiple use. *Restoration Ecology*. 27:701-704. <https://doi.org/10.1111/rec.12949> [IF= 2.7]. **\*\*Invited\*\***

22. Riginos, C.\*, **K.E. Veblen**, K.L. Gunnell, E. Thacker and T.A. Monaco. **2019**. Disturbance type and sagebrush community affect plant community structure following sagebrush reduction. *Rangeland Ecology & Management* 72:619-631. <https://doi.org/10.1016/j.rama.2019.01.007>
23. Eldridge, D.J., S.K. Travers, J. Val, A. Zaja, and **K.E. Veblen**. **2019**. Horse activity is associated with degraded subalpine grassland structure and reduced habitat for a threatened rodent. *Rangeland Ecology & Management* 72:467-473. <https://doi.org/10.1016/j.rama.2018.12.008>
24. Wilder, L.E.\*, **K.E. Veblen**, K.L. Gunnell, and T.A. Monaco. **2019**. Influence of fire and mechanical sagebrush reduction treatments on restoration seedings in Utah. *Restoration Ecology* 27: 308-319. <https://doi.org/10.1111/rec.12860>
25. Koerner, S.E. and 81 others including, **K.E. Veblen** and K.C. Nehring\*. **2018**. Change in dominance determines herbivore effects on biodiversity. *Nature Ecology and Evolution* 2: 1925-1932. <https://doi.org/10.1038/s41559-018-0696-y>
26. Goheen, J.R., D.J. Augustine, **K.E. Veblen**, D.M. Kimuyu, T.M. Palmer, L.M. Porensky, R.M. Pringle, J. Ratnam, C. Riginos, M. Sankaran, A. Ford, A.A. Hassan, R. Jakopak, T. Kartzinel, S. Kurukura, A.M. Louthan, W.O. Odadi, T.O. Otieno, A.M. Wambua, H.S. Young, and T.P. Young. **2018**. Conservation lessons from large-mammal manipulations in East African savannas: the KLEE, UHURU, and GLADE experiments. *Annals of the New York Academy of Sciences* 1429: 31-49. <https://doi.org/10.1111/nyas.13848>
27. Adler, P.B., D. Smull<sup>†</sup>, K.H. Beard, R.T. Choi<sup>†</sup>, T. Furniss<sup>†</sup>, A. Kulmatiski, J. Meiners<sup>†</sup>, A.T. Tredennick<sup>†</sup>, and **K.E. Veblen**. **2018**. Competition and coexistence in plant communities: is intraspecific competition stronger than interspecific competition? *Ecology Letters* 21: 1319-1329. <https://doi.org/10.1111/ele.13098>
28. Young, T.P., L.M. Porensky, C. Riginos, **K.E. Veblen**, W.O. Odadi, D.M. Kimuyu, G.K. Charles<sup>†</sup>, and H.S. Young. **2018**. Relationships between cattle and biodiversity in multiuse landscape revealed by the Kenya Long-term Exclosure Experiment. *Rangeland Ecology & Management* 71:281-291. <https://doi.org/10.1016/j.rama.2018.01.005> **\*\*Editor's Choice\*\***
29. Gonzales, J.B.<sup>†</sup>, R.H. Petipas, O. Franken, E.T. Kiers, **K.E. Veblen**, and A.K. Brody. **2018**. Herbivore removal reduces influence of arbuscular mycorrhizae on plant growth and tolerance in an East African savanna. *Oecologia* 187:123-133 <https://doi.org/10.1007/s00442-018-4124-4>
30. Germain, S.\*\*, R.K. Mann\*, T.A. Monaco, and **K.E. Veblen**. **2018**. Short-term regeneration dynamics of Wyoming big sagebrush at two sites in northern Utah. *Western North American Naturalist* 78: 7-16. <https://doi.org/10.3398/064.078.0103>
31. Riginos, C., L.M. Porensky, **K.E. Veblen**, and T.P. Young. **2018**. Herbivory and drought generate short-term stochasticity and long-term stability in a savanna understory community. *Ecological Applications* 28: 323-335. <https://doi.org/10.1002/eap.1649>
32. Hulvey, K.B., E Leger, L.M. Porensky, L.M. Roche, **K.E. Veblen**, A. Fund<sup>†</sup>, J. Shaw<sup>†</sup>, and E.S. Gornish. **2017**. Restoration islands: a tool for efficiently restoring dryland ecosystems? *Restoration Ecology* 25: S124-S134. <https://doi.org/10.1111/rec.12614>
33. Monroe, A.P.<sup>†</sup>, C.L. Aldridge, T.J. Assal, **K.E. Veblen**, D.A. Pyke, and M.L. Casazza. **2017**. Patterns in Greater Sage-grouse population dynamics correspond with public grazing records at broad scales. *Ecological Applications* 27: 1096-1107. <https://doi.org/10.1002/eap.1512>

34. Odadi, W.O., D.M. Kimuyu<sup>†</sup>, **K.E. Veblen**, C. Riginos, and T.P. Young. **2017**. Fire-induced negative nutritional outcomes for cattle when sharing habitat with native ungulates in an African savanna. *J. Applied Ecology* 54:934-944. <https://doi.org/10.1111/1365-2664.12785>
35. Sensenig, R.L., D.M. Kimuyu<sup>†</sup>, J.C Ruiz-Guajardo, **K.E. Veblen**, C. Riginos, and T.P. Young. **2017**. Fire disturbance disrupts an acacia ant-plant mutualism in favor of a subordinate ant species. *Ecology* 98: 1455-1464. <https://doi.org/10.1002/ecy.1797>
36. Kimuyu, D.M. <sup>†</sup>, **K.E. Veblen**, C. Riginos, R.M. Chira, J.M. Githaiga, and T.P. Young. **2017**. Influence of cattle on browsing and grazing wildlife varies with rainfall and presence of megaherbivores. *Ecological Applications* 27: 786-798. <https://doi.org/10.1002/eap.1482>
37. Young, H.S., D.J. McCauley, R. Dirzo, C.L. Nunn, M.G. Campana, B. Agwanda, E.R. Otarola-Castillo, E.R. Castillo, R.M. Pringle, **K.E. Veblen**, D.J. Salkeld, K. Stewardson, R. Fleischer, E. Lambin, T.M. Palmer, and K.M. Helgen. **2017**. Interacting effects of land use and climate on rodent-borne pathogens in central Kenya. *Philosophical Transactions of the Royal Society B* 372: 20160116. <https://doi.org/10.1098/rstb.2016.0116>
38. Charles, G.K. <sup>†</sup>, L.M. Porensky, C. Riginos, **K.E. Veblen**, and T. P. Young. **2017**. Herbivore effects on productivity vary by guild: cattle increase mean productivity while wildlife reduce variability. *Ecological Applications* 27: 143-155. <https://doi.org/10.1002/eap.1422>
39. Holthuijzen, M.F.\* and **K.E. Veblen**. **2016**. Grazing effects on precipitation-driven associations between sagebrush and perennial grasses. *Western North American Naturalist* 76: 313-325. <https://doi.org/10.3398/064.076.0308>
40. **Veblen, K.E.**, L.M. Porensky, C. Riginos, and T.P. Young. **2016**. Are cattle surrogate wildlife? Savanna plant community composition explained by total herbivory more than herbivore type. *Ecological Applications* 26: 1610-1623. <https://doi.org/10.1890/15-1367.1>
41. Braithwaite, H.\*\*, T. Bateman\*\*, **K.E. Veblen**, E. Thacker, and J.J. Villalba. **2016**. Identification of diet supplements for management of elk distributions. *The Wildlife Society Bulletin* 40:368-374. <https://doi.org/10.1002/wsb.633>
42. Young, H.S., R. Dirzo, K.M. Helgen, D.J. McCauley, C. Nunn, P. Snyder, **K.E. Veblen**, S. Zhao, and V.O. Ezenwa. **2016**. Large wildlife removal drives immune defence increases in rodents. *Functional Ecology* 30: 799-807. <https://doi.org/10.1111/1365-2435.12542>
43. Holthuijzen, M.F.\* and **K.E. Veblen**. **2015**. Grass-shrub spatial associations over a precipitation gradient and their implications for restoration in the Great Basin, USA. *PLoS ONE* 10(12): e0143170. <https://doi.org/10.1371/journal.pone.0143170>
44. Pringle, R.M., D.M. Kimuyu<sup>†</sup>, R.L. Sensenig, T.M. Palmer, C. Riginos, **K.E. Veblen** and T.P. Young. **2015**. Synergistic effects of fire and elephants on arboreal animals in an African savannah. *Journal of Animal Ecology* 84: 1637-1645. <https://doi.org/10.1111/1365-2656.12404>
45. Munson, S.M., R.H. Webb, D. Housman; **K.E. Veblen**, K.E. Nussear, E.A. Beever, K.B. Hartney, M.N. Miriti, S.L. Phillips, R.E. Fulton, and N.G. Tallent. **2015**. Long-term plant responses to climate are moderated by biophysical attributes in a North American desert. *Journal of Ecology* 103:657-668. <https://doi.org/10.1111/1365-2745.12381>
46. Porensky, L.M. and **K.E. Veblen**. **2015**. Generation of ecosystem hotspots using short-term cattle corrals in an African savanna. *Rangeland Ecology & Management* 68:131-141. <https://doi.org/10.1016/j.rama.2015.01.002>

47. Young, T.P. and **K.E. Veblen**. 2015. Strong recruitment from sparse plug plantings of native California bunchgrasses. *Grasslands* 25:9-11.
48. **Veblen, K.E.**, K.C. Nehring\*, C.M. McGlone, and M.E. Ritchie. 2015. Contrasting effects of different mammalian herbivores on sagebrush plant communities. *PLoS ONE* 10(2):e0118016. <https://doi.org/10.1371/journal.pone.0118016>
49. Kimuyu, D.M. †, R.L. Sensenig, C. Riginos, **K.E. Veblen**, and T.P. Young. 2014. Native and domestic browsers and grazers reduce fuel loads, fire temperatures, and acacia-ant mortality in an African savanna. *Ecological Applications* 24: 741-749. <https://doi.org/10.1890/13-1135.1>
50. **Veblen, K.E.**, D.A. Pyke, C. L. Aldridge, M.L. Casazza, T.J. Assal, and M.A. Farinha. 2014. Monitoring of livestock grazing effects on Bureau of Land Management land. *Rangeland Ecology and Management* 67: 68-77. <https://doi.org/10.2111/rem-d-12-00178.1>
51. **Veblen, K.E.** 2013. Impacts of traditional livestock corrals on woody plant communities in an East African savanna. *Rangeland Journal* 35: 349-353. <https://doi.org/10.1071/rj13001>
52. Porensky, L.M., S.F. Bucher\*\*, **K.E. Veblen**, A.C. Treydte, and T.P. Young. 2013. Megaherbivores and cattle alter edge effects around ecosystem hotspots in an African savanna. *Journal of Arid Environments* 96: 55-63. <https://doi.org/10.1016/j.jaridenv.2013.04.003>
53. Riginos, C., L.M. Porensky, **K.E. Veblen**, W.O. Odadi, R.L. Sensenig, D.M. Kimuyu†, F. Keesing, M.L. Wilkerson and T.P. Young. 2012. Lessons on the relationship between livestock husbandry and biodiversity from the Kenya Long-term Exclosure Experiment (KLEE) *Pastoralism: Research, Policy and Practice* 2:10. <https://doi.org/10.1186/2041-7136-2-10>
54. Porensky, L.M. and **K.E. Veblen**. 2012. Grasses and browsers reinforce landscape heterogeneity by excluding trees from ecosystem hotspots. *Oecologia* 168:749-759. <https://doi.org/10.1007/s00442-011-2123-9>
55. **Veblen, K.E.** 2012. Savanna glade hotspots: plant community development and synergy with large herbivores. *Journal of Arid Environments* 78:119-127. <https://doi.org/10.1016/j.jaridenv.2011.10.016>
56. Assal, T.J., **K.E. Veblen**, M.A. Farinha, C.L. Aldridge, M.L. Casazza, and D.A. Pyke. 2012. Data Resources for Range-wide assessment of livestock grazing across the sagebrush biome: U.S. Geological Survey Data Series 690, posted 6/13/12. <https://doi.org/10.3133/ds690>
57. **Veblen, K.E.**, D.A. Pyke, C.L. Aldridge, M.L. Casazza, T.J. Assal, and M.A. Farinha. 2011. Range-wide assessment of livestock grazing across the sagebrush biome: U.S. Geological Survey Open-File Report 2011-1263, 74 pp. <https://doi.org/10.3133/ofr20111263>
58. Augustine, D.J., **K.E. Veblen**, J.R. Goheen, C. Riginos and T.P. Young. 2011. Pathways for positive cattle-wildlife interactions in semi-arid rangelands. *Conserving Wildlife in African Landscapes: Kenya's Ewaso Ecosystem* (Ed. N.J. Georgiadis), pp. 55-71. Smithsonian Contributions to Zoology no. 632. Smithsonian Institution Scholarly Press. <https://doi.org/10.5479/si.00810282.632.55>
59. Holmes, K.A., **K.E. Veblen**, T.P. Young, and A.M. Berry. 2011. Effects of prescribed fires on young valley oak trees at a research restoration site in the Sacramento Valley. *Restoration Ecology* 19:118-125. <https://doi.org/10.1111/j.1526-100x.2009.00529.x>
60. **Veblen, K.E.** and T.P. Young. 2010. Contrasting effects of cattle and wildlife on the vegetation development of a savanna landscape mosaic. *Journal of Ecology* 98: 993-1001. <https://doi.org/10.1111/j.1365-2745.2010.01705.x>

61. **Veblen, K.E.** and T.P. Young. **2009.** A California grasslands alkali specialist, *Hemizonia pungens pungens*, prefers non-alkali soil. *Journal of Vegetation Science*: 20:170-176. <https://doi.org/10.1111/j.1654-1103.2009.05537.x>
62. Chang, A. L., J.D. Grossman, T.S. Spezio, H.W. Weiskel, J.C. Blum, J.W. Burt, A.A. Muir, J. Piovia-Scott, **K.E. Veblen**, and E.D. Grosholz. **2009.** Tackling aquatic invasions: risks and opportunities for the aquarium fish industry. *Biological Invasions*: 11:773-785. <https://doi.org/10.1007/s10530-008-9292-4>
63. **Veblen, K.E.** **2008.** Season- and herbivore-dependent competition and facilitation in a semi-arid savanna. *Ecology* 89: 1532-1540. <https://doi.org/10.1890/07-0973.1>
64. Holmes, K.A., **K.E. Veblen**, T.P. Young and A.M. Berry. **2008.** California oaks and fire: a review and case study. Pages 551-565 in Merenlender, A., D. McCreary, and K.L. Purcell, technical editors. *Proceedings of the Sixth California Oak Symposium: Today's Challenges, Tomorrow's Opportunities. 2006, October 9-12.* General Technical Report PSW-GTR-217. Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture. <https://doi.org/10.2737/PSW-GTR-217>
65. **Veblen, K.E.**, K.A. Holmes, and T.P. Young. **2007.** Response of one-year-old planted native grasses to controlled burns (California). *Ecological Restoration* 25: 50-51.
66. Burt, J.W., A.A. Muir, J. Piovia-Scott, **K.E. Veblen**, A.L. Chang, J.D. Grossman, and H.W. Weiskel. **2007.** Preventing horticultural introductions of invasive plants: potential efficacy of voluntary initiatives. *Biological Invasions* 9: 909-923. <https://doi.org/10.1007/s10530-007-9090-4>
67. Dawson, K.\*\*, **K.E. Veblen**, and T.P. Young. **2007.** Experimental evidence for an alkali ecotype of *Lolium multiflorum*, an exotic invasive annual grass in the Central Valley, CA, USA. *Biological Invasions* 9: 327-334. <https://doi.org/10.1007/s10530-006-9036-2>

### **Outreach publications:**

1. **Veblen, K.E.**, E. Thacker, M. Larese-Casanova, K.C. Nehring\*, M. Duniway, and C. Brungard. **2023.** *Establishing big sagebrush seedlings on the Colorado Plateau.* USU Extension Fact Sheets. [https://digitalcommons.usu.edu/extension\\_curall/2339/](https://digitalcommons.usu.edu/extension_curall/2339/) **\*\*Peer-reviewed\*\***
2. **Veblen, K.E.**, K.C. Nehring\*, M.C. Duniway, A. Knight, S. Fick, T.A. Monaco, E.W. Schupp, J.L. Boettinger, J.J. Villalba, C.B. Brungard, E.T. Thacker, J. Forbey, and D. Conner. **2021.** Interactive effects of soils and browsing on sagebrush: implications for restoration success. *Technical report to the Utah Division of Wildlife Resources.*
3. Mann, R.K.\*, T.A. Monaco, **K.E. Veblen**, E. Thacker, and B. Burritt. **2020.** *Shrub Management Handbook for Utah.* USU Extension Fact Sheets. **\*\*Peer-reviewed\*\*** [https://digitalcommons.usu.edu/extension\\_curall/2083/](https://digitalcommons.usu.edu/extension_curall/2083/)
4. **Veblen, K.E.** and L.M. Porensky. **2020.** Thresholds are in the eye of the beholder: plants and wildlife respond differently to short-term cattle corrals. *Bulletin of the Ecological Society of America* 101:e01639. <https://doi.org/10.1002/bes2.1639>
5. **Veblen, K.E.**, T.P. Young, and L.M. Porensky. **2019.** Ecological Restoration. Encyclopaedia Britannica. <https://www.britannica.com/science/ecological-restoration>
6. Duncan, B.L.\*, R. Hansen, K. Hambrecht, C. Cranney, J.J. Follstad Shah, **K.E. Veblen**, and K.M. Kettenring. **2019.** Cattle grazing for invasive *Phragmites australis* (common reed)

management in northern Utah wetlands. USU Extension Fact Sheets NR/Wildlands/2019-01pr, Logan, UT. 5pp. **\*\*Peer-reviewed\*\*** [https://digitalcommons.usu.edu/extension\\_curall/2030/](https://digitalcommons.usu.edu/extension_curall/2030/)

7. Veblen, K.E., B.A. Newingham, J. Bates, E.M. LaMalfa\*, and J. Gicklhorn†. 2015. Post-fire grazing management in the Great Basin. Great Basin Factsheet Series no. 7. **\*\*Invited & Peer-reviewed\*\*** Available at: <http://www.sagegrouseinitiative.com/post-fire-grazing-management-in-the-great-basin/>
8. Mann, R.K.\*, T.A. Monaco, **K.E. Veblen**, and J.R. Williams. 2015. *Utah Shrubland Management Newsletter*, Volume 5 (Spring 2015).
9. Mann, R.K.\*, T.A. Monaco, **K.E. Veblen**, and J.R. Williams. 2015. *Utah Shrubland Management Newsletter*, Volume 4 (Winter 2014/2015).
10. Mann, R.K.\*, T.A. Monaco, **K.E. Veblen**, and J.R. Williams. 2014. *Utah Shrubland Management Newsletter*, Volume 3 (Winter 2013/2014).
11. Young, T.P., R.L. Sensenig, D.M. Kimuyu, C. Riginos, and **K.E. Veblen**. 2013. Livestock and wildlife reduce fire intensity. (KLEE Corner #18) *Laikipia Wildlife Forum Newsletter*. November issue.
12. Mann, R.K.\*, T.A. Monaco, **K.E. Veblen**, and J.R. Williams. 2013. *Utah Shrubland Management Newsletter*, Volume 2 (Summer 2013).
13. Mann, R.K.\*, T.A. Monaco, **K.E. Veblen**, and J.R. Williams. 2013. *Utah Shrubland Management Newsletter* Volume 1 (Spring 2013).
14. Porensky, L.M., K.E. Veblen, and T.P. Young. 2011. What is so special about glade edges? (KLEE Corner #16). *Laikipia Wildlife Forum Newsletter* July issue.
15. **Veblen, K.E.** and L.M. Porensky. 2011. To move or not to move: optimizing the benefits of mobile bomas. *Mpala Research Centre Newsletter*, July issue.
16. **Veblen, K.E.** and T.P. Young. 2011. Plants helping plants in defense against cattle and wildlife. *Laikipia Wildlife Forum Newsletter*, January issue.
17. **Veblen, K.E.** Cattle and wildlife affect development of old boma sites. 2009. *Laikipia Wildlife Forum Newsletter*, January issue.

## **PRESENTATIONS**

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\* =grad student/post-doctoral advisee (my lab) † =grad student/post-doc collaborator (other lab)  
\*\* =undergraduate student advisee

### ***Invited presentations (external to home institution):***

1. **Veblen, K.E.** “Quality over quantity” as a climate-adaptive restoration strategy. Invited ignite presentation at 2024 Society for Range Management meeting. Sparks, NV, January 2024.
2. Day, J.D.\*, K.C. Nehring\*, and **K.E. Veblen**. Drivers of big sagebrush (*Artemisia tridentata*) survival and mortality on the Colorado Plateau. Invited presentation at 2023 Utah Section of the Society for Range Management meeting. Richfield, UT, November 2023.



3. **Veblen, K.E.** 2023. Sagebrush seedling establishment on the Colorado Plateau. Invited presentation at Utah's Watershed Restoration Initiative Statewide Partners Conference. Richfield, UT, May 2023.
4. Koutzoukis, S.\*, D.A. Pyke, M. Brunson, J. Baggio, C. Calzado-Martinez<sup>†</sup> and **K.E. Veblen.** Sagebrush's influence, or lack thereof, on herbaceous establishment in intact stands. Invited presentation at 2023 Great Basin Chapter of the Society for Ecological Restoration Annual Meeting. Virtual, April 2023.
5. **Veblen, K.E.,** E. Bailey\*, T.A. Monaco, and E. Thacker. 2023. Establishment of mountain big sagebrush from mature plant vs. seedling transplants. Invited presentation at Symposium "Beyond direct seeding: the next frontier of landscape scale vegetation restoration" at the 2023 Society for Range Management meeting. Boise, ID, February, 2023
6. **Veblen, K.E.** 2023. Restoration of multi-use rangelands in the face of drought. University of Oregon Institute of Ecology and Evolution seminar series. Eugene, OR, January, 2023.
7. **Veblen, K.E.** 2022. Criollo cattle as a potential drought mitigation strategy. Invited presentation at 2022 Utah Society for Range Management meeting, Provo, UT, November, 2022.
8. **Veblen, K.E.** 2022. Management of multi-use rangelands in the face of extreme drought. Plenary presentation at 2022 The Wildlife Society – Utah Chapter Annual Meeting, Moab, UT, March, 2022.
9. Pilliod, D.S., J.L. Beck, C.J. Duchardt, J.L. Rachlow, and **K.E. Veblen.** 2021. Leveraging vegetation monitoring data for wildlife: from concept to practice. Invited presentation at Symposium "Adaptive monitoring to support adaptive management" at the Annual Society for Range Management Meeting in Boise, ID. February, 2021.
10. Bailey, E.\*, E. Thacker, and **K.E. Veblen.** 2020. Establishment of sagebrush for restoration of agricultural lands. Presented at 2020 Utah Society for Range Management Meeting. Virtual meeting. November, 2020.
11. **Veblen, K.E.** 2020. Challenges and opportunities for herbivore management and restoration of western rangelands. Colorado State University, April 2020.
12. **Veblen, K.E.** Large herbivores as impetus, agent and impediment in restoration of sagebrush rangelands. 2018. Invited Symposium "Ecological restoration of dryland systems; recent successes and novel challenges" at the Annual Ecological Society of America Meeting in New Orleans, LA. August, 2018.
13. **Veblen, K.E.** 2018. Restoration of sagebrush rangelands. USDA Agricultural Research Service (ARS), Ft. Collins, CO. April, 2018
14. Thacker, E., K.C. Nehring\*, K.B. Hulvey, and **K.E. Veblen.** 2018. Large ungulate herbivory on rangelands of the Intermountain West. Invited presentation at Symposium "Sustainable Public Lands: Policy, Management and Science" at the Annual Society for Range Management Meeting in Reno, NV. February, 2018.
15. Monaco, T.A., **K.E. Veblen,** R.K. Mann\*, and E. Thacker. 2018. Native shrub control and seeding outcomes on eight ecological sites in Utah. Invited presentation at Symposium "Weedy native species; highlighting native species that act like weeds and identifying management strategies?" at the Annual Society for Range Management Meeting in Reno, NV. February, 2018.

16. Ali, A.H.\*, L.M. Porensky, and **K.E. Veblen**. 2018. Restoration of habitat for the world's most endangered antelope in Northeast Kenya. Invited presentation at Symposium "How does moisture availability affect reclamation and restoration on rangelands?" at the Annual Society for Range Management Meeting in Reno, NV. February, 2018.
17. Nehring, K.C.\* and **K.E. Veblen**. 2017. Soil texture mitigates the impact of ungulate herbivores on Big Sagebrush: Implications for sagebrush restoration on the Colorado Plateau. Invited presentation at Organized Session "Dryland restoration" at the Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region, Flagstaff, AZ. September, 2017.
18. **Veblen, K.E.** and K.C. Nehring\*. 2017. The role of livestock and wild ungulate herbivory in shaping sagebrush landscapes. Invited presentation at Organized Session "Cascading effects of large mammalian herbivores in terrestrial systems: community-, ecosystem-, and landscape-level consequences" at the Annual Meeting of the Ecological Society of America (ESA), Portland, OR. August, 2017.
19. Riginos, C., **K.E. Veblen**, W.O. Odadi, D.M. Kimuyu<sup>†</sup>, L.M. Porensky, G.K. Charles<sup>†</sup>, and T.P. Young. 2017. Planning for serendipity: the importance of surprises in long-term ecological research. Presentation at invited Organized Session "Surprising positive interactions between cattle and wildlife in an African savanna" at the Annual Meeting of the Ecological Society of America (ESA), Portland, OR. August, 2017.
20. Young, T.P., **K.E. Veblen**, C. Riginos, D. Kimuyu<sup>†</sup>, W. Odadi, L.M. Porensky, R.L. Sensenig, E.M. LaMalfa\*, and G.K. Charles<sup>†</sup>. 2017. Exploring the meaning of synergy in a multi-guild large herbivore experiment. Presentation at invited Organized Session "Cascading effects of large mammalian herbivores in terrestrial systems: community-, ecosystem-, and landscape-level consequences" at the Annual Meeting of the Ecological Society of America (ESA), Portland, OR. August, 2017.
21. **Veblen, K.E.** and K.C. Nehring\*. 2016. Cattle and wild ungulate effects on sagebrush rangelands. Presentation at 2016 Canyon Country Science and Management Symposium in Moab, UT. December, 2016.
22. **Veblen, K.E.** and K.C. Nehring\*. 2016. Cattle and wild ungulate effects on sagebrush rangelands in 13. Utah. Presented at 2016 Utah Society for Range Management meeting in Richfield, UT. November, 2016.
23. Young, T.P., K. Gravuer, G.K. Charles<sup>†</sup>, H. Young, C. Riginos and **K.E. Veblen**. 2016. Microbes and Megaherbivores: initial patterns from the Kenya Long-term Exclosure Experiment (KLEE). Invited speaker, STRI Microbial Science Symposium, Smithsonian Tropical Research Institute, Panama, 27 October, 2016.
24. Young, T. P., **K.E. Veblen**, C. Riginos, D. Kimuyu<sup>†</sup>, W. Odadi, G.K. Charles<sup>†</sup>, L.M. Porensky, F. Keesing, and R.L. Sensenig. 2016. Competition and Compatibility in the Kenya Long-Term Exclosure Experiment. Brigham Young University. Feb 25, 2016.
25. Monroe, A.P. <sup>†</sup>, C.L. Aldridge, T.J. Assal, **K.E. Veblen**, D.A. Pyke, and M.L. Casazza. 2016. Greater sage-grouse response to grazing timing and intensity in Wyoming. Presented at 2016 Great Basin Consortium Meeting in Salt Lake City, UT. March, 2016.
26. Young, T.P., D.M. Kimuyu<sup>†</sup>, C. Riginos, **K.E. Veblen**, L.M. Porensky, W. Odadi, F. Keesing, G.K. Charles<sup>†</sup>, R.M. Pringle & H.S. Young. 2015. Interactions between Cattle and Biodiversity:

- The Kenya Long-Term Exclosure Experiment (KLEE). Presented at University of Colorado at Boulder, Dept. of Environmental Studies Brown Bag Lunch Series. September, 2015.
27. LaMalfa, E.M.\*, D.M. Kimuyu<sup>†</sup>, R.L. Sensenig, C. Riginos, T.P. Young, and **K.E. Veblen**. 2015. Unraveling Fire and Herbivore Interactions to Manage Tree cover in an African Savanna. Presented at the 2015 Restoring the West Conference in Logan, UT. October, 2015.
  28. Gicklhorn, J.<sup>†</sup>, B.A. Newingham, J. Bates, E.M. LaMalfa\*, and **K.E. Veblen**. 2015. Post-fire grazing management in the Great Basin. Presentation at 2015 Restoring the West Conference in Logan, UT. October, 2015.
  29. Young, T.P., **K.E. Veblen**, C. Riginos, W.O. Odadi, and D.M. Kimuyu<sup>†</sup>. 2015. Conflict and coexistence between livestock and biodiversity in an African savanna. Presentation at Meeting of the Critical Ecosystem Partnership Fund (CEPF), Laikipia Kenya. July, 2015.
  30. **Veblen, K.E.**, D.A. Pyke, T. Wirth, M.F. Holthuijzen\*, and N. DeCrappeo. 2015. Restoring native perennial herbs while retaining shrubs in Great Basin sagebrush communities. Presentation at 2015 National Native Seed Conference in Santa Fe, NM. April, 2015.
  31. Young, T.P., G.K. Charles, **K.E. Veblen**, C. Riginos, and L.M. Porensky. 2014. A tale of two hotspots: the roles of termites, elephants, and cattle in creating and maintaining landscape heterogeneity. Groningen University, Netherlands. December, 2014.
  32. Young, T.P., K. J. Vaughn, **K.E. Veblen**, C. Riginos, L.M. Porensky, W. Odadi, E.P. Zefferman and S. Fick. 2014. The nature of species interactions shifts dramatically between time periods. Presented at 2014 Ecological Society of America meeting in Sacramento, CA. August, 2014.
  33. **Veblen, K.E.** 2014. Context-dependent plant community dynamics and applications to rangeland systems. USDA Agricultural Research Service (ARS), Reno, NV. April, 2014.
  34. **Veblen, K.E.**, J. Johanson, T. Monaco. 2013. Use of the NRCS Ecological Site Framework to Improve Ecological Understanding in Restoration Projects. Ignite presentation at 2013 Ecological Society of America meeting in Minneapolis, MN. August, 2013.
  35. **Veblen, K.E.** 2013. Plant community dynamics and livestock-wildlife interactions in semi-arid rangelands. University of Nairobi, Center for Sustainable Dryland Ecosystem and Societies, Department of Land Resources Management and Agricultural Technology, Invited seminar. July, 2013.
  36. **Veblen, K.E.** 2013. Context-dependent plant community dynamics and applications to rangeland systems. University of Wyoming, Department of Zoology & Physiology Seminar. January, 2013.
  37. **Veblen, K.E.** 2010. Plant-herbivore interactions in an East African rangeland mosaic, Utah State University, Department of Wildland Resources. April, 2010. (Prior to starting at USU)
  38. **Veblen, K.E.** 2009. Plant community dynamics and large herbivores in an East African rangeland mosaic, Oregon State University, Department of Rangeland Ecology and Management. January, 2009.
  39. **Veblen, K.E.** 2009. Large herbivores drive the development of an East African savanna mosaic. University of Puget Sound, Thompson Hall Mathematics and Sciences Seminar. April, 2009.

### ***Invited presentations (internal to home institution):***

1. **Veblen, K.E.** 2023. Improving habitat restoration approaches in the collaboration with the UDWR. USU UDWR Brown Bag Series. March, 2023.
2. **Veblen, K.E.** 2022. Management of multi-use rangelands in the face of drought. Quinney College of Natural Resources Seminar series. October, 2022.
3. Duniway, M., M.K. Stahl\*, D. Duni, **K.E. Veblen**, M. Redd, W. Munger, and A. Cibils. Using heritage breeds to maintain ecosystem function under livestock production. Criollo cattle as a climate adaptation strategy. USU Climate Adaptation Science, Science Management Policy Exchange in Moab, UT. March, 2022.
4. **Veblen, K.E.** 2019. Herbivory and restoration in rangelands. Utah State University, Climate Adaptation Science Interdisciplinary Research Forum. October, 2019.
5. Nehring, K.C.\* and **K.E. Veblen**. 2017. Impact of soil properties and ungulate herbivory on big sagebrush (*Artemisia tridentata*) stress response and survival. Presentation at UDWR Brown Bag Lunch seminar series. April, 2017.
6. **Veblen, K.E.** 2017. Livestock and wild ungulate effects on rangeland plant communities in Kenya and Utah. Department of Wildland Resources seminar series. February, 2017.
7. Monaco, T.A. and **K.E. Veblen**. 2015. Assessing vegetation change and seeding success on Utah Watershed Restoration Initiative project sites: a cooperative, team effort. UDWR Brown Bag Lunch Seminar Series. October, 2015.
8. **Veblen, K.E.** 2012. Context-dependent community dynamics and applications to rangeland systems. Utah State University, Ecology Center Interdisciplinary Lunch. December, 2012.
9. **Veblen, K.E.** 2012. Ecosystem effects of livestock grazing on multiple use lands, Utah State University, Department of Wildland Resources Seminar. January, 2012.
10. **Veblen, K.E.** 2012. Plant–herbivore interactions and restoration ecology on multi-use lands. USGS Co-op Annual Partners Meeting, Utah State University. May, 2012.

### ***Contributed presentations:***

1. Day, J.D., K.C. Nehring, and **K.E. Veblen**. Drivers of big sagebrush (*Artemisia tridentata*) survival and mortality in the Colorado Plateau. Presentation at 2024 Society for Range Management meeting. Sparks, NV, January 2024.
2. Stahl, M.K., **K.E. Veblen**, T. Avgar, J. Villalba, S. Reed, E. Thacker, M. Duniway, M. Garcia and M. Redd. Protecting rangelands in a changing climate: Comparing Raramuri Criollo landscape use patterns with red Angus cattle in the Colorado Plateau. Presentation at 2024 Society for Range Management meeting. Sparks, NV, January 2024.
3. Good, S.J., **K.E. Veblen**, T. Monaco, K. Gunnell, M. Landeen, D. Summers, and E. Thacker. Do managers' seed mix decisions align with a resistance and resilience framework? Poster at 2024 Society for Range Management meeting. Sparks, NV, January 2024.
4. Delton, M., **K.E. Veblen**, T.A. Monaco, and B. Waldron. Comparing seedling functional traits of bluebunch wheatgrass (*Pseudoroegneria spicata*) plant materials from two ecoregions. Poster at 2024 Society for Range Management meeting. Sparks, NV, January 2024.

5. Stosich, A., L. Defalco and **K.E. Veblen**. Propagation and establishment of *Penstemon albomarginatus*, a threatened plant of the Mojave Desert. Poster at 2024 Society for Range Management meeting. Sparks, NV, January 2024.
6. Brunson, M.W., C. Calzado-Martinez<sup>†</sup>, S. Koutzoukis\*, and **K.E. Veblen**. Barriers and opportunities for pre-emptive restoration of at-risk sagebrush communities. *Presented at Ecological Society of America Annual Meeting in Portland, OR. August 2023.*
7. Stahl, M.K.\*, **K.E. Veblen**, T. Avgar, J.J. Villalba, M. Garcia, E. Thacker, S.C. Reed, M. Redd, and M. Duniway. Does a heritage Mexican cattle breed create fewer hotspots of use than a conventional European breed? Poster at the Society for Range Management meeting, Boise, ID. February, 2023.
8. Day, J.D.\*, K.C. Nehring\*, and **K.E. Veblen**. Densities of sagebrush - especially smaller ones - decrease when large ungulates are excluded. Poster at the 2023 Society for Range Management meeting, Boise, ID, February, 2023.
9. Stahl, M.K.\*, **K.E. Veblen**, T. Avgar, J.J. Villalba, M. Garcia, E. Thacker, S.C. Reed, M. Redd, and M. Duniway. Does a heritage Mexican cattle breed create fewer hotspots of use than a conventional European breed? Poster at A Community on Ecosystem Services; Washington, D.C., December, 2022.
10. Condon, L., R. Rosentreter, D. Eldridge, **K.E. Veblen**, D.A. Pyke, and P. Coates. Season of grazing interacts with soil texture, selecting for cover of biocrust morphogroups. Presentation at Society for Range Management Annual Meeting in Albuquerque, NM. February, 2022.
11. Condon, L., R. Rosentreter, D. Eldridge, **K.E. Veblen**, D.A. Pyke, and P. Coates. Season of grazing interacts with soil texture, selecting for cover of biocrust morphogroups. Presentation at American Geophysical Union Annual Meeting in New Orleans, LA. December, 2021.
12. Ali, A.H.\*, L.M. Porensky, and **K.E. Veblen**. Rangeland restoration for a refugee antelope species using large-scale multi-site experiments. Presentation at International Congress for Conservation Biology in Kigali, Rwanda. December, 2021.
13. Young, T.P., D.M. Kimuyu, **K.E. Veblen**, C. Riginos, J. Sitters, L.M. Porensky, and W.O. Odadi. Elephants mitigate the effects of cattle on wildlife and other ecosystem traits: experimental evidence. Poster at The Joint International Grassland and International Rangeland Congress in Nairobi, Kenya. October, 2021.
14. Koutzoukis, S.\*, D.A. Pyke, C. Calzado, J. Baggio, M.W. Brunson, and **K.E. Veblen**. Above and belowground resource patterns associated with sagebrush islands of fertility in the Intermountain West. Presentation at 2021 Ecological Society of America Annual Meeting, Virtual meeting. August, 2021.
15. Riley, E.\*\*\*, **K.E. Veblen**, S. Koutzoukis\*, and J.I. Burton. Phenology and climate change in the TW Daniel Experimental Forest Meadow. Presented at the 2021 USU Student Research Symposium in Logan, UT. April, 2021
16. Bailey, E.\*, E. Thacker, and **K.E. Veblen**. Establishment of sagebrush for restoration of agricultural lands. Poster presented at 2021 Annual Society of Range Management Meeting. Virtual meeting. February, 2021.
17. Young, T.P., W.O. Odadi, D.M. Kimuyu, J. Sitters, **K.E. Veblen**, and L.M. Porensky. Elephants mitigate the (mostly negative) effects of cattle on a Kenyan savanna rangeland. Presentation at

- the 2020 Ecological Society of America meeting in Salt Lake City, UT (virtual meeting). August, 2020.
18. Koutzoukis, S.\*, D.A. Pyke, J. Baggio, C. Calzado, M.W. Brunson, and **K.E. Veblen**. Distance from sagebrush canopy influences seedling survival in the Intermountain West. Poster at 2020 Ecological Society of America Annual Meeting, Salt Lake City, Utah (virtual meeting). August 2020.
  19. Owen, M.L.\*, T.A. Monaco, and **K.E. Veblen**. Effects of biocrust development on establishment of native plants in a salt desert system. Poster presented at 2020 Annual Society for Range Management in Denver, CO. February, 2020.
  20. Calzado, C.†, M.W. Brunson, S. Koutzoukis, **K.E. Veblen**, J. Baggio, and D.A. Pyke. Addressing barriers to proactive restoration for at-risk sagebrush communities: A Causal Layered Analysis. Poster presented at 2020 Annual Society for Range Management in Denver, CO. February, 2020.
  21. Owen, M.L.\*, T.A. Monaco, and **K.E. Veblen**. Effects of biocrust development on establishment of native plants in a salt desert system. Presentation at 2019 Utah Society for Range Management in Cedar City, UT, November, 2019.
  22. Wilder L.E.\*, **K.E. Veblen**, K.L. Gunnell, and T.A. Monaco. Influence of fire and mechanical sagebrush reduction treatments on restoration seedings in Utah, United States. Poster presented at Annual Society for Ecological Restoration Southwest Chapter, Tucson, AZ, November, 2019.
  23. **Veblen, K.E.**, K.C. Nehring\*, S. Fick†, and M. Duniway. Sagebrush restoration success on the Colorado Plateau depends on soil texture and depth. Presentation at Biennial Conference of Science and Management on the Colorado Plateau meeting, Flagstaff, AZ, September, 2019.
  24. **Veblen, K.E.**, S. Koutzoukis\*, C. Calzado\*, M. Brunson, J. Baggio, and D.A. Pyke. A pre-emptive approach to restoration of rangeland biodiversity and ecosystem services. Poster at AFRI Bioeconomy Agroecosystems Project Directors Meeting, Tampa, FL, October, 2017.
  25. Charles, G.K.†, T.P. Young, C. Riginos, **K.E. Veblen**, and D.M. Kimuyu†. Diversity does not always beget diversity: multiple herbivore guilds combine to contribute to the maintenance of low woody diversity in an African savanna ecosystem. Presentation at the Annual Meeting of the Ecological Society of America (ESA), Portland, OR. August, 2017.
  26. LaMalfa, E.M.\*, C. Riginos, and **K.E. Veblen**. Acacia sapling escape following a decade of grass removal and herbivory manipulations in an East African savanna. Poster presentation at the Annual Meeting of the Ecological Society of America (ESA), Portland, OR. August, 2017.
  27. Nehring, K.C.\* and **K.E. Veblen**. Soil texture alters the impact of ungulate herbivory on big sagebrush (*Artemisia tridentata*) density and size structure. Presentation at the Annual Meeting of the Ecological Society of America (ESA), Portland, OR. August, 2017.
  28. Pyke, D.A., J. Gicklhorn†, B.A. Newingham, M. Trask, and **K.E. Veblen**. 2017. Tiller demography of two common Great Basin bunchgrasses after fires. Poster at the Annual Meeting of the Ecological Society of America (ESA), Portland, OR. August, 2017.
  29. **Veblen, K.E.**, C. Riginos, K. Gunnell, and T.A. Monaco. 2017. Evaluation of the effects of wildfire and shrub reduction projects on sagebrush rangelands across Utah. Presentation at 2017 Annual Society for Range Management in St. George, UT. February, 2017.

30. Taylor, J.\*\*, **K.E. Veblen**, E. Thacker, and J.J. Villalba. 2017. Energy- and protein-based supplements improve decadent sagebrush use by elk. Poster presentation at 2017 Society for Range Management in St. George, UT. February, 2017.
31. LaMalfa, E.\*, D.M. Kimuyu<sup>†</sup>, R.L. Sensenig, C. Riginos, T.P. Young, **K.E. Veblen**. 2016. Elephants and wildlife browsers limit tree re-sprout responses following experimental fires. Poster Presentation at the 2016 Ecological Society of America annual meeting in Fort Lauderdale, FL. August, 2016.
32. Kimuyu, D.M. <sup>†</sup>, **K.E. Veblen**, C. Riginos and T.P. Young. Interactions between livestock, biodiversity and fire: some lessons from the Kenya Long-Term Exclosure Experiment (KLEE). Poster at NACOSTI 5th National Science Meeting in Nairobi, Kenya. May, 2016.
33. LaMalfa, E.\*, D.M. Kimuyu<sup>†</sup>, R.L. Sensenig, C. Riginos, T.P. Young, and **K.E. Veblen**. 2016. Fire and herbivore interactions limit tree demographic transitions East African savannas: how do juveniles persist? Presentation at USU Student Research Symposium. April, 2016.
34. Germain, S.J.\*\*, G.K. Charles<sup>†</sup>, T.P. Young, and **K.E. Veblen**. 2016. Responses of plant functional traits to grazing in a Kenyan savannah. Presentation at USU Student Research Symposium. April, 2016.
35. Newingham, B.A., **K.E. Veblen**, J. Bates, E.M. LaMalfa\*, and J.<sup>†</sup> Gicklhorn. 2016. Post-fire grazing management in the Great Basin. Poster presentation at 2016 Great Basin Consortium Meeting in Salt Lake City, UT. February, 2016.
36. Mann, R.K.\*, **K.E. Veblen** and T.A. Monaco. 2016. The Ecological-Site based Shrub Management Handbook for Utah: Bringing current research to the range. Poster presentation at 2016 Society for Range Management Meeting in Corpus Christi, TX. February, 2016.
37. **Veblen, K.E.**, L.M. Porensky, C. Riginos, and T.P. Young. 2016. Are cattle surrogate wildlife? Separate and additive effects of wild and domestic herbivores suggest broad ecological equivalence with respect to herbaceous plant community composition. Presentation at 2016 Society for Range Management Meeting in Corpus Christi, TX. February, 2016.
38. D.M. Kimuyu<sup>†</sup>, C. Riginos, **K.E. Veblen**, and T.P. Young. 2016. Some lessons on the impact of cattle on wildlife from the Kenya Long-term Exclosure Experiment (KLEE), Laikipia, Kenya. Presentation at Pathways Kenya 2016: Integrating human dimensions into fisheries and wildlife management meeting, Laikipia, Kenya. January 2016.
39. Monroe, A.P. <sup>†</sup>, C.L. Aldridge, T.J. Assal, **K.E. Veblen**, D.A. Pyke, and M.L. Casazza. 2015. Greater sage-grouse response to grazing timing and intensity in Wyoming. Presented at 2015 The Wildlife Society, Wyoming Chapter meeting. November, 2015.
40. Monroe, A.P. <sup>†</sup>, C.L. Aldridge, T.J. Assal, **K.E. Veblen**, D.A. Pyke, and M.L. Casazza. 2015. Greater sage-grouse (*Centrocercus urophasianus*) population response to grazing management and precipitation across broad scales in Wyoming. Presented at 2015 America's Grassland Conference, Sept 29-Oct 31. Fort Collins, CO. September, 2015.
41. Monroe, A.P. <sup>†</sup>, C.L. Aldridge, T.J. Assal, **K.E. Veblen**, D.A. Pyke, and M.L. Casazza. Broad-scale population response of Greater sage-grouse (*Centrocercus urophasianus*) to grazing management and precipitation. Presentation at 2015 International Grouse Symposium, Sept 4-7, Reykjavik, Iceland. September, 2015.

42. Germain, S.\*\*, R.K. Mann\*, **K.E. Veblen**, and T.A. Monaco. 2015. Sagebrush seedling recruitment following tebuthiuron application. Presentation at USU Student Research Symposium. April, 2015. **\*\*1st place in undergraduate student presentation competition\*\***
43. LaMalfa, E.\* and **K.E. Veblen**. 2015. Fire herbivore trap: effects of herbivory on post-fire tree re-sprout size and morphology in *Acacia drepanolobium* savanna. Presentation at USU Student Research Symposium. April, 2015.
44. **Veblen, K.E.**, D.A. Pyke, T. Wirth, M.F. Holthuijzen, and N. DeCrappeo. 2015. Targeting shrub and interspace microsites for restoration seedings and plantings in Great Basin sagebrush communities. Presentation at 2015 Annual Society for Range Management meeting in Sacramento, CA. February, 2015.
45. Mann, R.K.\*, **K.E. Veblen**, and T.A. Monaco. 2015. Variation in competitive ability of bottlebrush squirreltail (*Elymus elymoides*) populations. Presentation at 2015 Annual Society for Range Management meeting in Sacramento, CA. February, 2015.
46. Braithwaite, H.\*\*, T. Bateman\*\*, J.J. Villalba, **K.E. Veblen**, and E. Thacker. 2015. Identification of diet supplements for elk management. Presentation at 2015 Annual Society for Range Management meeting in Sacramento, CA. February, 2015.
47. Young, T.P., C. Riginos, **K.E. Veblen**, W. Odadi, D.M. Kimuyu. 2015. Trophic interactions between cattle and biodiversity: the Kenya Long-term Exclosure Experiment (KLEE). Presentation at 2015 Annual Society for Range Management meeting in Sacramento, CA. February, 2015.
48. Germain, S.\*\*, R.K. Mann\*, **K.E. Veblen**, and T.A. Monaco. 2014. Sagebrush seedling recruitment following tebuthiuron application. Presentation at 2014 Utah Society for Range Management meeting in Logan, UT. November, 2014.
49. Duncan, B.D.\*, **K.E. Veblen**, and K.M. Kettenring. 2014. Costs and benefits of using grazing as a management tool to remove *Phragmites australis* in wetlands: An upcoming project. Presentation at 2014 Utah Society for Rangeland Management meeting in Logan, UT. November, 2014.
50. LaMalfa, E.\* and **K.E. Veblen**. 2014. Fire, cattle and wildlife interactions: Effects on trees and herbaceous community in East African rangeland. Presentation at 2014 Utah Society for Range Management meeting in Logan, UT. November, 2014.
51. Germain, S.\*\*, **K.E. Veblen**, and R.K. Mann\*. 2014. Sagebrush seedling recruitment following tebuthiuron treatment. Poster at Fall 2014 USU SURCO symposium. September, 2014.
52. Holthuijzen, M.F\*, **K.E. Veblen**, D.A. Pyke and T.A. Monaco. 2014. Grass-shrub spatial pattern response to a moisture gradient in Great Basin sagebrush communities. Presentation at 2014 Ecological Society of America meeting in Sacramento, CA. August, 2014.
53. Nehring, K.C.\*, **K.E. Veblen**, and T.J. Zelikova. 2014. Interactive effects of large ungulates and abiotic factors on state shifts in sagebrush plant communities. Poster at 2014 Ecological Society of America meeting in Sacramento, CA. August, 2014.
54. **Veblen, K.E.**, K.C. Nehring\*, C.M. McGlone, and M.E. Ritchie. 2014. Cattle-wild ungulate effects on sagebrush plant communities. Poster at 2014 Ecological Society of America meeting in Sacramento, CA. August, 2014.



55. Kimuyu, D.M.<sup>†</sup>, R.L. Sensenig, C. Riginos, **K.E. Veblen**, and T.P. Young. 2014. Native and domestic browsers and grazers reduce fuel loads, fire temperatures, and acacia-ant mortality in an African savanna. Poster at 2014 Ecological Society of America meeting in Sacramento, CA. August, 2014.
56. Braithwaite, H.\*\*\*, T. Bateman\*\*, J.J. Villalba, **K.E. Veblen**, and E. Thacker. 2014. Identification of diet supplements for elk management. Poster at 2014 Utah State University Research Week Undergraduate Student Showcase in Logan, UT. April, 2014.
57. Kimuyu, D.M.<sup>†</sup>, R.L. Sensenig, C. Riginos, **K.E. Veblen**, and T.P. Young. 2014. Interactive effects of fire and herbivory on survival of acacia-ant symbionts in an African savanna. Presentation at Savanna Science Networking meeting, Kruger National Park, South Africa. March, 2014.
58. Braithwaite, H.\*\*\*, T. Bateman\*\*, J.J. Villalba, **K.E. Veblen**, and E. Thacker. 2014. Identification of diet supplements for elk management. Poster at 2014 Utah Wildlife Society meeting in St. George, UT. March, 2014. **\*\*Winner of Utah TWS Chapter Research Award\*\***
59. Nehring, K.C.\*, **K.E. Veblen**, T. J. Zelikova. 2014. Large ungulate effects on sagebrush plant communities: implications for maintaining vital forage habitat for multiple ungulate species. Presentation at 2014 Utah Wildlife Society meeting in St. George, UT. March, 2014. **\*\*3<sup>rd</sup> place in student presentation competition\*\***
60. Nehring, K.C.\*, **K.E. Veblen**, C.M. McGlone, and M.E. Ritchie. 2014. Cattle-wild ungulate effects on sagebrush plant communities in northern Utah. Presentation at 2014 Annual Society for Range Management meeting in Orlando, FL. February, 2014.
61. Porensky, L.M. and **K.E. Veblen**. 2014. Pinpointing ecological thresholds: how much cattle impact is needed to generate persistent ecosystem hotspots? Presentation at 2014 Annual Society for Range Management meeting in Orlando, FL. February, 2014.
62. Nehring, K.C.\*, **K.E. Veblen**, and T.J. Zelikova. 2013. Long-term patterns of wild and domestic ungulate effects on rangeland plant communities of the Colorado Plateau. Presentation at the 2013 Utah Society for Range Management Annual Meeting, Cedar City, UT. November, 2013.
63. Mann, R.K.\*, **K.E. Veblen**, and T.A. Monaco. 2013. Shrub management in Utah: An experimental framework to investigate how ecological sites may guide management decisions. Presentation at the 2013 Utah Society for Range Management Annual Meeting, Cedar City, UT. November, 2013.
64. Holthuijzen, M.F.\* and **K.E. Veblen**. 2013. Grass-shrub spatial associations over a precipitation gradient in the Great Basin, USA: insights into ecological restoration. Poster at the 2013 Restoring the West Conference in Logan, UT. October, 2013.
65. **Veblen, K.E.**, M.F. Holthuijzen\*, T.A. Wirth, N. DeCrappeo, and D.A. Pyke. 2013. Plant responses to rainfall and microsite in sagebrush communities: Keys to restoration success in the Great Basin? Presentation at the 2013 Ecological Society of America meeting in Minneapolis, MN. August, 2013.
66. Riginos, C., **K.E. Veblen**, L.M. Porensky, and T.P. Young. 2013. Cattle, wild herbivores, and drought interact to drive vegetation change over 17 years in an East African savanna. Presentation at the 2013 Ecological Society of America meeting in Minneapolis, MN. August, 2013.

67. **Veblen, K.E.** 2012. Alternative pathways for development of meso-scale wildlife hotspots in an East African savanna. Poster at the 2012 Ecological Society of America meeting in Portland, OR. August, 2012.
68. **Veblen, K.E.**, E.A. Beever, M. Huso, and D.A. Pyke. 2011. Long-term ecosystem responses to livestock removal in the Mojave Desert. Presented at the 2011 Ecological Society of America meeting in Austin, TX. August, 2011.
69. Porensky, L.M., **K.E. Veblen**, and T.P. Young. 2011. Grasses and large herbivores enhance landscape heterogeneity by excluding a savanna tree from ecosystem hotspots. Presentation at the 2011 Ecological Society of America meeting in Austin, TX. August, 2011.
70. **Veblen, K.E.**, D.A. Pyke, C. L. Aldridge, M.L. Casazza, T. Assal, and M.A. Farinha. 2011. Monitoring of Livestock Grazing Effects on Bureau of Land Management. Poster at the 2011 Annual Society for Range Management meeting in Billings, MT. February, 2011.
71. **Veblen, K.E.**, D.A. Pyke, C. L. Aldridge, M.L. Casazza, T. Assal, and M.A. Farinha. 2009. Assessment of livestock grazing effects and land management in sagebrush steppe across the western United States. Poster at the 2009 Ecological Society of America meeting in Albuquerque, NM. August, 2009.
72. **Veblen, K.E.** 2009. Cattle drive the development of wildlife hotspots in an East African rangeland. Presented at the 2009 Annual Society for Range Management meeting in Albuquerque, NM. February, 2009.
73. **Veblen, K.E.** and T.P. Young. 2008. Cattle and wildlife effects on persistence of a successional savanna landscape mosaic. Presented at the 2008 Ecological Society of America meeting in Milwaukee, WI. August 2008.
74. **Veblen, K.E.** 2008. Effects of brush addition, tree clearing and nutrient addition on boma-glade development. Poster at July, 2008 Laikipia Wildlife Forum meeting, Kenya. July, 2008.
75. **Veblen, K.E.** 2008. The ecology of abandoned cattle corrals in Laikipia, Kenya. Poster at the 2008 Bay Area Conservation Symposium, Davis, CA. January, 2008.
76. **Veblen, K.E.** 2007. Season- and herbivore-mediated competition and facilitation in a semi-arid savanna. Presented at the 2007 Ecological Society of America meeting in San Jose, CA. August, 2007.
77. **Veblen, K.E.** 2007. Anthropogenic productivity hotspots influence long-term ecosystem biodiversity. Presented at the 2007 Society for Conservation Biology meeting in Port Elizabeth, South Africa. July, 2007.
78. Young, T.P., C. Warui, B. Okello, R.M. Pringle, **K.E. Veblen**, C. Riginos, R. Erii. 2007. KLEE: the first 12 years of an experimental approach to livestock-biodiversity interactions. 2007 21<sup>st</sup> Annual Meeting of the Society for Conservation Biology, Port Elizabeth South Africa, July 1-5, 2007. July, 2007.
79. **Veblen, K.E.**, K. Dawson and T.P. Young. 2007. Invasion resistance (and invasion) of *Hemizonia*-dominated alkali sinks in a *Lolium* annual grassland in the Central Valley of California. Presented at 2007 California Native Grasslands Association meeting in Santa Barbara, CA. May, 2007.

80. Holmes, K.A., **K.E. Veblen**, T. P. Young, A.M. Berry. 2007. Effect of Prescribed Fires on Young Valley Oaks and Native Bunchgrasses. Presented at 2007 California Native Grasslands Association meeting in Santa Barbara, CA. May, 2007.
81. Burt, J.W., A.A. Muir, J. Piovio-Scott, **K.E. Veblen**, A.L. Chang, J.D. Grossman, and H.W. Weiskel. 2007. Invasive plants for sale! A survey of nursery professionals. Presented at 2007 California Native Grasslands Association meeting in Santa Barbara, CA. May, 2007.
82. Burt, J.W., A.A. Muir, J. Piovio-Scott, **K.E. Veblen**, A.L. Chang, J.D. Grossman, and H.W. Weiskel. 2007. Invasive plants for sale! A survey of nursery professionals. 2007 California Invasive Plant Council (Cal-IPC) Symposium: "Communication and Conservation: The Human Dimension in Invasive Plant Management", San Diego, California. September, 2007.
83. **Veblen, K.E.** 2006. Footprints on the landscape: former boma sites in an East African savanna. Presented at the 2006 Biodiversity in Inhabited Areas of East Africa conference, Kampala, Uganda. July, 2006.
84. **Veblen, K.E.** 2006. The Ecology of Black Cotton Glades. Poster at July, 2006 Laikipia Wildlife Forum meeting, Kenya. July, 2006.
85. Piovio-Scott, J., J.W. Burt, A.A. Muir, **K.E. Veblen**, A. Chang, J.D. Grossman, and H. Weiskel. 2006. Potential efficacy of self-regulation to prevent invasive plant introductions via the horticulture trade. 8th Annual Bay Area Conservation Biology Symposium, February 4, 2006, San Francisco State University. February, 2006.
86. Chang, A.L., J.D. Grossman, T.S. Spezio, H.W. Weiskel, J.W. Burt, A.A. Muir, J. Piovio-Scott, and **K.E. Veblen**. 2006. Potentially Invasive Non-native Aquarium Fish and the San Francisco Bay-Delta Region. 14<sup>th</sup> International Conference on Aquatic Invasive Species, May 14-19<sup>th</sup>, 2006, Key Biscayne, Florida. May, 2006.
87. Holmes, K.A., **K.E. Veblen**, T. P. Young, A.M. Berry. 2006. Effects of Prescribed Fires on Young Valley Oak Trees. Sixth California Oak Symposium, Oct. 10, 2006, Rohnert Park, CA. Burt, J.W., A.A. Muir, J. Piovio-Scott, **K.E. Veblen**. 2005. Invasive species and the horticulture trade: finding effective solutions. Coast Quarantine Group Meeting, November 9, 2005, Dublin, CA. October, 2006.
88. Burt, J.W., A.A. Muir, J. Piovio-Scott, and **K.E. Veblen**. 2005. Perspectives of Nursery Professionals on Invasive Plants and the St. Louis Voluntary Codes of Conduct. CA Invasive Plant Council (Cal-IPC) 2005 Symposium, Prevention Reinvention: Protocols, Information, and Partnerships to Stop the Spread of Invasive Plants, October 6-8, 2005, Chico State University, California. October, 2005.
89. Burt, J.W., A.A. Muir, J. Piovio-Scott, and **K.E. Veblen**. 2005. Symposium presentation: Gardens & Guppies: Working together to prevent introductions of invasive species via the horticulture and aquarium trades. Fall 2005 UC Davis Biological Invasions IGERT conference. September, 2005.
90. **Veblen, K.E.** 2005. Glades as landscape features in an African rangeland savanna: vegetation dynamics and large herbivores. Presented at the 2005 Bay Area Conservation Symposium, Stanford, CA. January, 2005.

## **GRANTS and CONTRACTS (Total: \$4,983,198)**

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- 2023-2025** US Geological Survey. “Understanding ecological processes for restoring rare plant species to their native habitats under increasing land use and changing regional climate”. DeFalco, L. and **K.E. Veblen**. **\$70,601** to USU.
- 2022-2025** USGS Natural Resources Preservation Program (NRPP), “Assessing the efficacies of passive versus active restoration on heavily disturbed cattle-grazing sites in the Mojave National Preserve”. L. DeFalco, E. Beever, and **K.E. Veblen**. **\$209,262** total with \$34,323 to USU.
- 2021-2025** USDA-AFRI, “Criollo cattle as a strategy to maintain output of ecosystem services under a changing climate”. **Veblen, K.E. (P.I.)**, M. Duniway, T. Avgar, E. Thacker, J. Villalba, M. Garcia, S. Reed. **\$495,230** total with \$396,953 to USU.
- 2021-2025** Utah Division of Wildlife Resources, “Are good intentions enough? Evaluation of post-wildfire seed mix performance in sagebrush rangelands” **Veblen, K.E. (PI)**, E. Thacker and T. Monaco. **\$258,197**.
- 2020-2024** USDA-ARS Specific Cooperative Agreement, “Wildland testing of bluebunch wheatgrass plant materials under variable environmental conditions”. Monaco, T.A. and **Veblen, K.E.** **\$86,391** to USU.
- 2020-2024** National Science Foundation, “LTREB: Stability and resilience in the face of multiple interacting press and pulse disturbances of a changing world (Kenya Long-term Exclosure Experiment: KLEE)”. Young, T.P., **K.E. Veblen**, R. Langendorf, A. Wolf, and L. Hallett. **\$641,650** to T.P. Young.
- 2019-2022** Bureau of Land Management National Conservation Lands Management Studies Support Program, “Promoting biological soil crusts through grazing management”, Condon, L. and **K.E. Veblen**. **\$24,996** to USU.
- 2018-2021** Monsanto, “Monsanto greater sage-grouse habitat rehabilitation study - Caldwell Canyon Mine Project”. Thacker, E. and **K.E. Veblen**. **\$162,431** to USU.
- 2017-2021** USDA-AFRI, “A pre-emptive rangeland restoration approach to improving biodiversity and provision of ecosystem services”. **Veblen, K.E. (PI)**, M. Brunson, J. Baggio, and D. Pyke. **\$500,000** to USU.
- 2017-2022** Private donation, “Rangeland restoration as a tool to enhance the recovery of hirola antelope in eastern Kenya”. Ali, A. (post-doc, fundraiser, and lead author) and **K.E. Veblen**. **\$139,500** to USU.
- 2017-2019** National Geographic Society, “Savanna synergies: complex interactions between fire and wild and domestic herbivores”. Young, T.P., **K.E. Veblen**, D. Kimuyu, and W. Odadi. **\$24,400** to T.P. Young.
- 2017** National Science Foundation, REU supplement. Young, T.P., E. Forbes and **K.E. Veblen**. **\$8,178** to T.P. Young.
- 2016-2021** Bureau of Land Management, “Restoration and monitoring of Antelope Pasture, southern ID”. **Veblen, K.E. (PI)**, J. Boettinger and T.A. Monaco. **\$80,000** to USU.

- 2015-2020** USGS-USFWS Science Support Partnership, “Perennial grass response to post-fire grazing management”. Pyke, D.A., **K.E. Veblen** and B. Newingham. **\$272,961** total with \$97,789 to USU.
- 2015-2020** Utah Division of Wildlife Resources, “Interactive effects of soils and browsing on sagebrush: implications for restoration success”. **Veblen, K.E. (PI)**, K. Nehring, M. Duniway, J. Boettinger, E. Schupp, T. Monaco, E. Thacker, J. Villalba, and C. Brungard. **\$227,200** to USU.
- 2015-2018** USDA-ARS Specific Cooperative Agreement, “Comprehensive assessment of seeded restoration species: factors controlling establishment and persistence”. Monaco, T.A. and **K.E. Veblen**. **\$41,000** to USU.
- 2015-2017** Great Basin Native Plant Project, “Comprehensive assessment of rangeland seedings to improve restoration success”; Monaco, T.A., K.E. Veblen, E. Thacker, J. Vernon, D. Summers, and K. Gunnell. **\$30,536** to USU.
- 2015-2017** Utah Agricultural Experiment Station, “Using grazing systems to manage ecosystem services in Utah and western landscapes”. Hulvey, K., E. Thacker, **K.E. Veblen**, M. Brunson. **\$79,997**.
- 2015-2017** USU office of Research and Graduate Studies, “Integrating ecological, economic, and social components to improve effectiveness of landscape restoration”. Kettenring, K. **K.E. Veblen**, K. Mock, M. Brunson, E. Edwards, and R. Whitesides. **\$54,000**.
- 2015-2017** Utah Division of Water Quality, “Water quality impacts of cattle grazing in Great Salt Lake Wetlands”. Kettenring, K. and **K.E. Veblen**. **\$39,093** to USU.
- 2015-2016** Utah Public Land Policy Coordinating Office (via UDWR), “Increasing Stakeholder Awareness and Appreciation of the Scientific Basis for Utah’s Greater Sage-grouse Conservation Strategy”. Messmer, T., **K.E. Veblen**, E. Thacker, and T.A. Monaco. **\$93,562** to USU.
- 2015-2016** USDA Natural Resources Conservation Service, “GBCESU: Estimation of plant height using photogrammetrically derived point clouds”. Ramsey, D., K. Hulvey, E. Thacker, and **K.E. Veblen**. **\$13,917** to USU.
- 2015-2016** USU Extension, “Using livestock grazing systems to manage ecosystem services in Utah rangelands”; Hulvey, K., E. Thacker, B. Burritt, D. Rothlisberger, **K.E. Veblen**, M. Brunson, and D. Ramsey. **\$10,000**.
- 2015-2016** South Davis Sewer District, “Impacts of grazing for *Phragmites* control on soil nitrogen and phosphorus in Great Salt Lake wetlands”. Kettenring, K., **K.E. Veblen** and J. Follstad-Shah. **\$65,000** to USU.
- 2015** National Park Service, “Monitoring aspen and tall shrubs for ungulate browsing at Fossil Butte National Monument”. Rogers, P. and **K.E. Veblen**. **\$10,000** to USU.
- 2015** National Science Foundation, REU supplement. **Veblen, K.E. (PI)**, G.K. Charles and T.P. Young. **\$9,398** to USU.
- 2014-2017** Utah Division of Forestry, Fire & State Lands, “Effectiveness of grazing and herbicide as a *Phragmites* control and wetland restoration approach”. Kettenring, K. and **K.E. Veblen**. **\$94,720** to USU.

- 2014-2015** Utah Agricultural Experiment Station, “Competitive variation among bottlebrush squirreltail (*Elymus elymoides*) populations and identification of potential environmental drivers”. **Veblen, K.E. (PI)**, R. Mann and T.A. Monaco. **\$19,994**.
- 2014-2015** Utah Watershed Restoration Initiative, “Expediting the comprehensive synthesis and assessment of Utah range trend studies and Watershed Restoration Initiative projects”. Monaco, T.A., **K.E. Veblen**, E. Thacker, J. Johanson, K. Gunnell, J. Cox, D. Summers, J. Vernon). **\$40,586** to USU.
- 2014** USU Extension Mini- Grant, “Assessment of Cattle Distribution in Rich County UT”. Thacker. E., D. Rothlisberger, and **K.E. Veblen**. \$10,000.
- 2013-2019** National Science Foundation, “Renewal: Collaborative research: KLEE- scaling up and out at the Kenya Long-term Exclosure Experiment”. Young, T.P., K.E. Veblen and C. Riginos. **\$449,773** total with \$145,235 to USU.
- 2013-2014** Utah State University Research Catalyst Grants, “Long-term patterns and context-dependence of deer, elk and cattle effects on rangeland plant communities”. **Veblen, K.E. (PI)**. **\$19,994**.
- 2012-2015** USDA Natural Resources Conservation Service (NRCS), Utah Conservation Innovation Grants (CIG), “An ecological site-based handbook and demonstration of brush management (CP 314) and range planting (CP 550) technology for Utah shrublands”. Monaco, T.A., K.E. Veblen, and B. Burritt. **\$74,785** to USU.
- 2012-2013** Utah Department of Agriculture and Food, “Consequences of livestock removal for plant communities across three ecological sites in southeastern Utah (Colorado Plateau)”. **Veblen, K.E. (PI)** and T.J. Zelikova. **\$20,900** to USU.
- 2011-2015** Great Basin Native Plant Selection and Increase Project, “Restoration of native understory plants in degraded sagebrush steppe ecosystems,”. **Veblen, K.E. (PI)**, D.A. Pyke, N. DeCrappeo, and T. Wirth. **\$135,500 total** with \$39,971 to USU.
- 2011-2013** Utah State University Agricultural Experiment Station, “Restoration of native understory plants in degraded sagebrush steppe ecosystems”. **Veblen, K.E. (PI)**, D.A. Pyke, N. DeCrappeo, and T. Wirth. **\$19,651**.
- 2008-2012** National Science Foundation, “KLEE- scaling up and out at the Kenya Long-term Exclosure Experiment”. Young, T.P., C. Riginos, **K.E. Veblen**, and K. Caylor. **\$449,800** to T.P. Young.

## **FELLOWSHIPS, HONORS AND AWARDS RECEIVED**

- 2023** Quinney College of Natural Resources Graduate Mentor of the Year
- 2016** Quinney College of Natural Resources graduation escort for valedictorian (selected by valedictorian)
- 2016** Quinney College of Natural Resources Undergraduate Research Mentor of the Year (\$500)
- 2015** Quinney College of Natural Resources Teacher of the Year (\$1,000)
- 2014** Quinney College of Natural Resources Commencement, Inspirational Speaker (selected by students)
- 2013** Department of Wildland Resources Outstanding Graduate Mentor

- 2009 Shapiro Family Award for most outstanding PhD graduate in Dept. of Plant Sciences, UC-Davis (\$1,000)
- 2003-2008 National Science Foundation Graduate Research Fellowship (\$124,000)
- 2003-2008 UC Davis Biological Invasions NSF-IGERT Fellowship (\$75,000)
- 2006 Science and Society/Career Discovery Group Fellowship, UC-Davis (\$3,600)
- 2002 UC Davis, Ecology Graduate Group Block Grant Fellowship (\$24,000)
- 1998 Jacob Van Ek Award (one of 20 awards given annually by College of Arts and Sciences in recognition of service and scholarship), CU-Boulder
- 1997 Phi Beta Kappa

## **TEACHING**

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### ***Classes taught:***

WILD 4750: Monitoring and Assessment in Natural Resource and Environmental Management; 4 credits, Fall 2011, 2012, 2013, 2014, 2015; 2016; 2020; 2021; 2022; 2023

WILD 6700/WATS 6700: Restoration Ecology (team taught with Dr. Karin Kettenring); 4 credits, Spring 2012, 2014, 2016, 2020; 2022

### ***Guest lectures:***

Utah State University, Dept. of Wildland Resources, Ecology of Our World class, Fall 2021

Utah State University, Dept. of Watershed Sciences, Ecology and Restoration of Wetland and Riparian Plants class, Spring 2021

Utah State University, Dept. of Wildland Resources, Monitoring and Assessment in Natural Resources class, Fall 2019

Utah State University, Climate Adaptation Science Program, Fall 2018

U. Missouri traveling Ecology of Grazing Lands class, Summer 2018

Utah State University, Dept. of Landscape Architecture and Environmental Planning, Bioregional Analysis and Planning class, Fall 2017

Utah State University, Dept. of Wildland Resources, Natural Resources Professional Orientation class, Spring 2015, Fall 2015, Spring 2016, Fall 2016

Utah State University, Dept. of Wildland Resources, Assessment and synthesis in natural resource science class, Spring 2015, Spring 2017

Utah State University, Dept. of Watershed Sciences, Restoration Ecology class, Spring 2013

University of Nairobi students (at Mpala Research Centre, Kenya), 2011

Leeds University students (at Mpala Research Centre, Kenya), 2011

University of San Francisco, Conservation and Policy Masters Program, 2007

Princeton University students (at Mpala Research Centre, Kenya), 2006

Greenwood College students (at Mpala Research Centre, Kenya), 2006

## **MENTORING and ADVISING (USU unless noted otherwise)**

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### ***Graduate student and post-doc advising:***

#### Current

Brittany Johnson, MS, 2023 - present

Alex Stosich, MS, 2023 - present

McKenna Delton, MS, 2021 - present

Spencer Good, MS, 2021 - present

Josh Day, PhD, 2021 - present  
Maria Stahl, PhD (Quinney Fellow), 2021 - present

Completed (students)

Sofia Koutzoukis, PhD, 2022: “A fine-scale understanding of sagebrush islands to improve restoration outcomes in the Intermountain West”  
Elizabeth Bailey, MS, 2021: “Transplanting mature mountain big sagebrush plants yields high first-year survival in former agricultural lands”  
Kyle Nehring, MS, 2021: “Interactive effects of soil and browsing on big sagebrush: implications for restoration success”  
Merran Owen, MS, [co-advisor], 2020: “Effect of biocrust development on establishment of native plants in a salt desert system”  
Eric LaMalfa (USU Quinney Fellow), PhD, 2018: “Fire-herbivory interactions in an East African savanna: effects on *Acacia drepanolobium* and the demographic bottleneck”  
Brittany Duncan, MS, [co-advisor], 2018: “Impacts of cattle grazing as a tool to control *Phragmites australis* in wetlands on nitrogen, phosphorus, and carbon”; currently employed by Utah Department of Natural Resources  
Lacey Wilder, MS, [co-advisor], 2017: “Assessment of restoration seedings on Utah Watershed Restoration Initiative project sites”; currently employed by SWCA Environmental Consultants  
Rebecca Mann, MS, 2016: “Intraspecific variation in the response of *Elymus elymoides* to competition from *Bromus tectorum*”; currently employed by U.S. Geological Survey  
Maike Holthuijzen (NSF Graduate Research Fellow), MS, 2015: “Grass-shrub spatial associations over precipitation and grazing gradients in the Great Basin”; currently in PhD program

Completed (post-docs)

Abdullahi Ali, Post-doc, 2017-2022  
Corinna Riginos, Post-doc, 2015-2016  
Huiqin He, Post-doc [co-advisor], 2015  
Lin Liu, Post-doc [co-advisor], 2013-2014

***Graduate committee memberships:***

Current

Montana Horchler (MS, WATS, 2023-present)  
Bonnie Stokes (MS, WILD, 2023-present)  
Ruger Carter (PhD, WILD, 2023-present)  
Annie Schiffer (PhD, WILD, 2023-present)  
Rae Nickerson (PhD, WILD, 2022-present)  
Elana Feldman (MS, WATS, 2021-present)  
Shantell Garrett (PhD, WILD, 2019-present)  
Carmen Calzado (PhD, ENVS, 2018-present)  
External PhD examiner (2024, Nelson Mandela University)

Past

Tyson Terry (PhD, WILD, 2021-2023)  
Courtney Check (MS, WILD, 2021-2023)  
Adam Clifford (MS, WILD, 2020-2022)  
Rayce Bryan (MS, WILD, 2019-2022)



Coryna Hebert (MS, WATS, 2019-2022)  
Cole Bleke (PhD, WILD, 2019-2022)  
Lainie Brice (PhD, WILD, 2018-2021)  
Ryan Choi (PhD, WILD, 2015-2021)  
Kade Lazenby (MS, WILD, 2017-2019)  
Jacqueline Pena (MS, WILD, 2017-2018)  
Michel Kohl (PhD, WILD, 2012-2018)  
Christine Rohal (PhD, WATS, 2012-2018)  
Seth Dettenmeier (PhD, WILD, 2011-2018)  
Adam Fund (MS, WILD, 2016-2017)  
Andrew Sims (MS, WILD, 2015-2017)  
External PhD examiner (2016, Nelson Mandela Metropolitan University)  
Aimee Tallian (PhD, WILD, 2012-2016)  
Chesson Colburn (MS, WILD, 2012-2015)  
Hilary Whitcomb (PhD, ENVIS, 2011-2016)  
Marcella Campione (PhD, WILD, 2011-2015)  
Matt Van Scoyoc (MS, WILD, 2011-2014)

***Undergraduate research mentoring:***

Lucas Forsberg, Undergraduate research, 2024  
Mikenna DeBruin, Honors contract [co-advisor], 2021  
Elise Riley, Undergraduate research [co-advisor], 2019-2021  
Maggie Hallerud, Honors contract, 2016  
Amberlee Burrows, Undergraduate research [co-advisor], 2016  
Justin Taylor, Undergraduate research [co-advisor], 2015-2017  
Lacey Wilder, Undergraduate research [co-advisor], 2015  
Sara Germain, Undergraduate research, 2014-2016  
Trec Reed, Undergraduate research, 2014-2015  
Brittany Johnson, Undergraduate research, 2014-2015  
Jamie Reynolds, Honors contract, 2014  
Trinity Smith, Honors contract, 2014  
Hope Braithwaite, Undergraduate research [co-advisor], 2013-2015  
Tim Bateman, Undergraduate research [co-advisor], 2013-2015  
Brittany Duncan, Undergraduate research, 2013-2014  
Kathryn Dawson, Senior thesis (U.C-Davis/U. East Anglia), 2004

***Other Mentoring:***

Society for Conservation Biology program targeting African women scientists (2008-2009)  
Science and Society/Career Discovery Group for entering freshmen, UC-Davis (2006-2007)

***Grants, Fellowships, and Awards to Advisees (Total = \$446,312):***

Southwest Climate Adaptation Science Center (SW CASC) Natural Resources Workforce  
Development (NRWD) Fellowship, Maria Stahl, 2023 (\$9,250)  
Canyonlands Research Center Graduate Research Scholars Program research grant, Maria Stahl,  
2023 (\$3,000)  
USU Ecology Center student research grant, Maria Stahl, 2023 (\$4,998)  
USU Ecology Center student research grant, Sofia Koutzoukis, 2022 (\$2,680)

NSF Graduate Research Fellowship, Honorable Mention, Maria Stahl, 2022  
 USU Quinney Doctoral Fellowship, Maria Stahl, 2021 (\$40,000)  
 USU Undergraduate Research and Creative Opportunities, Elise Riley, 2019 (\$1,646)  
 USU Ecology Center student research grant, Sofia Koutzoukis, 2019 (\$5,000)  
 USU Climate Adaptation Science Traineeship, Sofia Koutzoukis, 2018 (\$34,000)  
 USU Dept. of Wildland Resources travel funds, Eric LaMalfa, 2018 (\$300)  
 USU Quinney College of Natural Resources travel funds, Eric LaMalfa, 2018 (\$400)  
 USU Ecology Center travel grant, Eric LaMalfa, 2018 (\$700)  
 USU Ecology Center student research grant, Eric LaMalfa, 2017 (\$4,000)  
 USU Ecology Center travel grant, Kyle Nehring, 2017 (\$400)  
 USU Dept. of Wildland Resources travel funds, Eric LaMalfa, 2017 (\$300)  
 USU Quinney College of Natural Resources travel funds, Eric LaMalfa, 2017 (\$300)  
 USU RGS Graduate student travel grant, Eric LaMalfa, 2017 (\$300)  
 USU Ecology Center travel grant, Eric LaMalfa, 2017 (\$300)  
 USU Undergraduate Research and Creative Opportunities, Justin Taylor, 2016 (\$750)  
 Canyonlands Research Center Graduate Research Scholars Program research grant, Kyle Nehring, 2016 (\$2,000)  
 NSF Graduate Research Fellowship, Sara Germain, 2016 (\$126,000; funding was awarded to undergrad mentee and will be used for grad work outside my lab)  
 USU Dept. of Wildland Resources travel funds, Eric LaMalfa, 2016 (\$300)  
 USU Quinney College of Natural Resources travel funds, Eric LaMalfa, 2016 (\$300)  
 USU RGS Graduate student travel grant, Eric LaMalfa, 2016 (\$300)  
 USU Ecology Center travel grant, Eric LaMalfa, 2016 (\$600)  
 Utah Chapter of TWS grant, Hope Braithwaite and Tim Bateman, 2014 (\$500)  
 USU Ecology Center student research grant, Rebecca Mann, 2014 (\$1,500)  
 USU Ecology Center student research grant, Kyle Nehring, 2014 (\$2,500)  
 Garden Club of America Award in Desert Studies, Rebecca Mann, 2014 (\$4,000)  
 USU Summer Undergraduate Research and Creative Opportunities, Sara Germain, 2014 (\$1,250)  
 USU Ecology Center travel grant, Kyle Nehring, 2014 (\$1,125)  
 USU RGS Graduate student travel grant, Kyle Nehring, 2014 (\$600)  
 USU Center for Women and Gender travel grant, Kyle Nehring, 2014 (\$500)  
 USU Dept. of Wildland Resources travel funds, Kyle Nehring, 2014 (\$600)  
 NSF Graduate Research Fellowship, Honorable Mention, Kyle Nehring, 2014  
 USU Dept. of Wildland Resources travel funds, Kyle Nehring, 2013 (\$300)  
 USU Ecology Center travel grant, Rebecca Mann, 2013 (\$313)  
 USU Dept. of Wildland Resources travel funds, Rebecca Mann, 2013 (\$300)  
 USU Undergraduate Research and Creative Opportunities, Hope Braithwaite, 2013 (\$500)  
 USU Undergraduate Research and Creative Opportunities, Brittany Duncan, 2013 (\$500)  
 USU Quinney Doctoral Fellowship, Eric LaMalfa, 2013 (\$60,000)  
 USU Ecology Center student research grant, Maike Holthuijzen, 2013 (\$2,500)  
 USU Ecology Center student research grant, Kyle Nehring, 2013 (\$2,500)  
 USU Ecology Center student research grant, Maike Holthuijzen, 2012 (\$3000)  
 NSF Graduate Research Fellowship, Maike Holthuijzen, 2012 (\$126,000)

## **PROFESSIONAL MEMBERSHIPS**

Ecological Society of America

Society for Range Management  
Society for Ecological Restoration

## **SERVICE**

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### ***Service to the Profession:***

#### Coordinating editor

2015 - present *Restoration Ecology*

#### Manuscript reviews, scientific journals

*African Journal of Ecology, Applied Vegetation Science, Austral Ecology, Biotropica, Botany, Ecography, Ecological Applications, Ecological Restoration, Ecological Solutions & Evidence, Ecology, Ecosphere, Ecology Letters, Ecosystems, Frontiers in Ecology & Evolution, Global Change Biology, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Arid Environments, Journal of Ecology, Journal of Mammalogy, Journal of Tropical Ecology, Journal of Zoology, Land Degradation and Development, Natural Areas Journal, Oecologia, Plant and soil, Plant Ecology, Plos One, Rangelands, Rangeland Ecology & Management, Restoration Ecology, Western North American Naturalist*

#### Other reviewing activity

Manuscript pre-reviews, USGS

Manuscript pre-reviews, USDA-ARS

Ad-hoc reviewer, USU Extension fact sheets

Ad-hoc proposal reviewer, Utah Agricultural Experiment Station

Ad-hoc proposal reviewer, Nevada Agricultural Experiment Station

Ad-hoc proposal reviewer, National Science Foundation

Ad-hoc proposal reviewer, USDA-NIFA

Panel member, National Science Foundation

External reviewer, federal promotion dossier

External reviewer, faculty tenure and promotion

#### Professional conference activities

2022            Presenter, USDA NIFA workshop: “Understanding how to fund your research: tips for junior faculty, postdocs, and graduate students”. 2022 Society for Range Management Annual Meeting.

2016-2017    Diversity committee sub-chair for 2017 Annual Society for Range Management annual meeting planning committee

2012           Meeting mentor for the Rangeland Ecology section of the Ecological Society of America meeting; Judge for student competition at Annual Society for Range Management Meeting

2011           Judge for student competitions at Ecological Society of America meeting

### ***Campus Service:***

2024-present Faculty Leadership Council, QCNR

2023-present College Faculty Appeals Committee, QCNR

2023-present Promotion Committee (Chair), Andrew Kulmatiski, Dept. of Wildland Resources

2023-present Promotion Committee, Eric Thacker, Dept. of Wildland Resources

2023-present Promotion Committee, Julie Young, Dept. of Wildland Resources

2023-present P&T Committee, Moria Robinson, Dept. of Biology  
 2023-present Graduate Mentorship Committee, Dept. of Wildland Resources  
 2023-present Search Committee, Department Head, Dept. of Wildland Resources  
 2022-present P&T Committee, Fabiane Mundim, Dept. of Biology  
 2019-present Undergraduate Honors Advisor, Dept. of Wildland Resources  
 2019-present USU Ombudsperson, QCNR  
 2018-present P&T Committee (Chair), Kezia Manlove, Dept. of Wildland Resources  
 2011-present Curriculum Committee, Dept. of Wildland Resources  
 2023 P&T Committee, Justin DeRose, Dept. of Wildland Resources  
 2023 USU Honors admissions reviewer  
 2022 QCNR Diversity Equity and Inclusion Committee member  
 2022 Expedited Tenure Committee, Linda Nagel, Dept. of Wildland Resources  
 2020-2023 P&T Committee, Molly Womack, Dept. of Biology  
 2020-2022 P&T Committee, Mark Chynoweth, Dept. of Wildland Resources  
 2020-2022 P&T Committee (Chair), Larissa Yocom, Dept. of Wildland Resources  
 2021 Search Committee (Chair), Ecosystem Ecologist, Dept. of Wildland Resources  
 2020-2021 QCNR Diversity Equity and Inclusion Taskforce  
 2020 USU Honors admissions reviewer  
 2019 Tenure committee, Sunshine Brosi, Dept. of Wildland Resources  
 2019 Search Committee, Dept. Head, Dept. of Wildland Resources  
 2019, 2016 QCNR Awards Committee  
 2017-2021 P&T Committee, David Dahlgren, Dept. of Wildland Resources  
 2017-2019 P&T Committee, Larissa Yocom, Dept. of Wildland Resources  
 2017 P&T Committee, Andrew Kulmatiski, Dept. of Wildland Resources  
 2017 Search Committee, Population and Movement Ecologists, Dept. of Wildland Resources  
 2017 Panelist, CWG 2017-2018 Women's Leadership Initiative  
 2016 QCNR "Master teacher" for USU "Foundations of USU teaching" workshop for new faculty  
 2016 Search Committee for Research Associate, Ecology Center  
 2013-2014 Panelist for Undergraduate Research and Creative Opportunities grant program  
 2013-2014 Search Committee, Rangeland Ecologist, Dept. of Wildland Resources  
 2013 Search Committee, Forest Ecologist, Dept. of Wildland Resources  
 2012 Search Committee, Research Associate, Ecology Center

**Outreach and Press:**

2012-present Canyonlands Research Center Science Committee  
 2023 Research highlighted on KMZU News: <https://soundcloud.com/user-452372146-352514478/this-breed-of-desert-cattle-could-change-the-beef-industry-in-the-southwest>  
 2023 Research highlighted on Fox 13 Salt Lake City: <https://www.fox13now.com/news/local-news/scientists-at-canyonlands-research-center-finding-climate-change-solutions>  
 2023 Research highlighted in USU Today: <https://www.usu.edu/today/story/new-research-tracks-successes-for-transplanting-full-sized-mountain-big-sagebrush>  
 2023 Field tour for Fox Hills Ranch sagebrush restoration project. Soda Springs, ID.  
 2022 Research highlighted and grad student featured in Science Moab podcast: <https://sciencemoab.org/science-on-the-range/>

- 2022 Research highlighted in Moab Sun: <https://moabsunnews.com/2022/06/02/criollo-cattle-could-save-ranching/>
- 2022 Research highlighted for USDA NIFA National Invasive Species Awareness week: <https://nifa.usda.gov/about-nifa/blogs/invasive-species-affect-everyone?fbclid=IwAR0-cePDn1zgAGb1dcDIFbdZENiYV5QQ5ZT3upjTPxLodgQrdblr6e-VnIQ>
- 2022 Panelist: A Field Day at the Dugout Ranch (Sustainable Southwest Beef Project)
- 2021 Speaker in USU Ecology Center video featured at American Geophysical Union meeting: <https://www.youtube.com/watch?v=fdlG3910Les>
- 2021 Featured on “Wildland Stories” webinar series hosted by USU Forestry Extension <https://www.youtube.com/watch?v=zOHXUz88Mlo>; interview then featured in Natural Resources Management Today Newsletter: <https://www.bluetoad.com/publication/?i=716269&pre=1>
- 2020 Research highlighted in USU Today: <https://www.usu.edu/today/story/climate-change-criollo-and-the-colorado-plateau-is-an-old-breed-the-future-for-cattle-ranching>
- 2020 Interviewed by Utah Public Radio about remote graduate defenses <https://www.upr.org/post/virtual-thesis-defenses-during-coronavirus-restrictions#stream/0>
- 2018 Agency field tours (June and Sept.) for sagebrush restoration project, southern UT
- 2017 Search committee for Canyonlands Research Center field station manager
- 2016 Interviewed by Utah Public Radio for my paper on cattle-wildlife interactions in Kenya <http://upr.org/post/cows-imitate-zebras-and-other-grazers-african-savanna>
- 2016 Interviewed by Oregon Public Broadcasting for story on rangeland monitoring <http://www.opb.org/news/series/burns-oregon-standoff-bundy-militia-news-updates/data-gap-on-ecosystem-health-puts-ranchers-feds-at-odds/>
- 2015 Field tours for Brush Management Project, Cedar Fort, UT (May 2015), Bird’s Eye, UT (May 2015), Park Valley, UT (June 2015), Bear Lake, UT (June 2015) (presented primarily by my grad student, R. Mann)
- 2015 Presentation of *Phragmites* grazing project results, Phragmites Working Group Meeting in Salt Lake City, UT, March, 2015 (presented by my grad student, B. Duncan)
- 2014 Field tour presentation for Beef Basin sagebrush restoration project, Utah Society for Range Management Summer Range Tour, Summer 2014 (presented by my grad student, K. Nehring)
- 2013 Participation in Canyonlands Research Center Ecosystem Management Workshop
- 2013 Mpala Research Centre Outreach Discovery Day
- 2012 Provision of study design advice to the Swaner Ecocenter for a goat grazing project
- 2012 Provision of recommendations for land treatments, Monticello, UT BLM district
- 2012 Presentation on restoration and livestock-wildlife interactions at annual USGS co-op meeting

[Also see *Outreach publications*]