

## JEFFREY L. BECK

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### EDUCATION

PhD	University of Idaho	Forestry, Wildlife & Range Sciences	2003
MS	Brigham Young University	Wildlife and Range Resources	1996
BS	Brigham Young University	Wildlife and Range Resources	1993

### PROFESSIONAL EXPERIENCE

2013–present	Associate Professor	Wildlife Habitat Restoration Ecology	University of Wyoming
2007–2013	Assistant Professor	Wildlife Habitat Restoration Ecology	University of Wyoming
2006–2007	Postdoc Scientist	Habitat Modeling Analyst	University of Wyoming
2005–2006	Avian Scientist	Sagebrush Steppe Wildlife	Colorado Division of Wildlife
2005	Postdoc Scientist	Forest Wildlife Monitoring	University of Wyoming
2004–2005	Postdoc Scientist	Upland Game Ecology	University of Idaho
1996–1997	Wildlife Biologist II	Lands (Habitat)	Utah Division of Wildlife Resources

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55 peer-refereed publications (52 journal articles, 2 book chapters, 1 textbox in book chapter). Google Scholar: 1,246 citations, h-index = 19, i10 index = 29; ResearchGate score = **30.28** (higher than 87.5% of ResearchGate Members). As of 8 June 2017.

### Peer-Refereed Journal Articles (Chronological within year; student authors underlined)

1. Gamo, R.S., and **J.L. Beck**. 2017. Energy disturbance and productivity of mule deer habitat in sage-grouse core areas. *Rangeland Ecology and Management* 70:In press
2. Pratt, A.C., K.T. Smith, and **J.L. Beck**. 2017. Environmental cues used by greater sage-grouse to initiate altitudinal migration. *The Auk: Ornithological Advances* 134:628–643. doi: <http://dx.doi.org/10.1642/AUK-16-192.1>
3. LeBeau, C.W., G.D. Johnson, M.J. Holloran, **J.L. Beck**, R.M. Nielson, M.E. Kauffman, E.J. Rodemaker, and T.L. McDonald. 2017. Greater sage-grouse habitat selection, survival, and wind energy infrastructure. *Journal of Wildlife Management* 81:690–711. doi: 10.1002/jwmg.21231
4. Gamo, R.S., K.T. Smith, and **J.L. Beck**. 2017. Energy development and hunter success for mule deer and pronghorn in Wyoming. *Wildlife Society Bulletin* 41: 62–69. doi: 10.1002/wsb.728
5. LeBeau, C.W., **J.L. Beck**, G.D. Johnson, R.M. Nielson, M.J. Holloran, K.G. Gerow, and T.L. McDonald. 2017. Greater sage-grouse male lek counts relative to wind energy development. *Wildlife Society Bulletin* 41:17–26. doi: 10.1002/wsb.725
6. Gamo, R.S., and **J.L. Beck**. 2017. Effectiveness of Wyoming’s Sage-grouse Core Area policy: Influences on energy development and male lek attendance. *Environmental Management* 59:189–203. doi: 10.1007/s00267-016-0789-9
7. Clapp, J.G., and **J.L. Beck**. 2016. Short-term impacts of fire-mediated habitat alterations on an isolated bighorn sheep population. *Fire Ecology* 12(3):80–98. doi: 10.4996/fireecology.1203080
8. Pennington, V.E., D.R. Schlaepfer, **J.L. Beck**, J.B. Bradford, K.A. Palmquist, and W.K. Lauenroth. 2016. Sagebrush, greater sage-grouse, and the occurrence and importance of forbs. *Western North American Naturalist* 76:298–312. <http://www.bioone.org/doi/full/10.3398/064.076.0307>
9. Smith, K.T., **J.L. Beck**, and A.C. Pratt. 2016. Does Wyoming’s Core Area Policy protect winter habitats for greater sage-grouse? *Environmental Management* 58:585–596. doi: 10.1007/s00267-016-0745-8
10. Dinkins, J.B., M.R. Conover, C.P. Kirol, **J.L. Beck**, and S.N. Frey. 2016. Effects of common raven and coyote removal and temporal variation in climate on greater sage-grouse nesting success. *Biological Conservation* 202:50–58. doi: <http://dx.doi.org/10.1016/j.biocon.2016.08.011>
11. Scasta, J.D., **J.L. Beck**, and C.J. Angwin. 2016. Meta-analysis of diet composition and potential conflict of wild horses with livestock and wild ungulates on western rangelands of North America. *Rangeland Ecology and Management* 69:310–318. doi: <http://dx.doi.org/10.1016/j.rama.2016.01.001>
12. Smith, K.T., **J.L. Beck**, T.W. Mong, and F.C. Blomquist. 2016. Identification of Columbian sharp-tailed grouse lek sites in south-central Wyoming. *Western North American Naturalist* 76:135–141. doi: <http://dx.doi.org/10.3398/064.076.0115>
13. Dinkins J.B., K.T. Smith, **J.L. Beck**, C.P. Kirol, A.C. Pratt, and M.R. Conover. 2016. Microhabitat conditions in Wyoming’s Sage-grouse Core Areas: Effects on nest site selection and success. *PLoS ONE* 11(3):e0150798. doi: 10.1371/journal.pone.0150798
14. Taylor, K.T., **J.L. Beck**, and S.V. Huzurbazar. 2016. Mortality risk for pronghorn exposed to wind energy development on winter range. *Rangeland Ecology and Management* 69:108–116. doi: <http://dx.doi.org/10.1016/j.rama.2015.12.003>

**Peer-Refereed Journals** (chronological within a year; student author; continued)

15. Clapp, J.G., and **J.L. Beck**. 2015. Evaluating distributional shifts in home range estimates. *Ecology and Evolution* 5:3869–3878. doi: 10.1002/ece3.1655
16. Kirol, C.P., **J.L. Beck**, S.V. Huzurbazar, M.J. Holloran, and S.N. Miller. 2015. Identifying greater sage-grouse source and sink habitats for conservation planning in an energy development landscape. *Ecological Applications* 25:968–990. doi: <http://dx.doi.org/10.1890/13-1152.1.sm>
17. Rottler, C.M., C.E. Noseworthy, B. Fowers, and **J.L. Beck**. 2015. Effects of conversion from sagebrush to grasslands on sagebrush-associated species. *Rangelands* 37:1(1):1–6. doi: 10.1016/j.rala.2014.12.004
18. Doherty, K.E., D.E. Naugle, J.D. Tack, B.L. Walker, J.M. Graham, and **J.L. Beck**. 2014. Linking conservation actions to demography: grass height explains variation in greater sage-grouse nest survival. *Wildlife Biology* 20:320-325. doi: <http://dx.doi.org/10.2981/wlb.00004>
19. Dinkins, J.B., M.R. Conover, C.P. Kirol, **J.L. Beck**, and S.N. Frey. 2014. Effects of avian predators and anthropogenic and landscape features on greater sage-grouse (*Centrocercus urophasianus*) use of sagebrush habitat. *The Condor: Ornithological Applications* 116:629-642. doi: 10.1650/CONDOR-13-163.1.
20. Clapp, J.G., **J.L. Beck**, and K.G. Gerow. 2014. Post-release acclimation of translocated low-elevation, non-migratory bighorn sheep. *Wildlife Society Bulletin* 38:657–663. doi: 10.1002/wsb.441
21. Fedy, B.C., K.E. Doherty, C.L. Aldridge, M. O'Donnell, **J.L. Beck**, B. Bedrosian, M.J. Holloran, G.D. Johnson, N.W. Kaczor, C.P. Kirol, C.A. Mandich, D. Marshall, G. McKee, C. Olson, A.C. Pratt, C.C. Swanson, and B.L. Walker. 2014. Habitat prioritization across large landscapes, multiple seasons, and novel areas: an example using greater sage-grouse in Wyoming. *Wildlife Monographs* 190:1–39. doi: 10.1002/wmon.1014
22. Buchanan, C.B., **J.L. Beck**, and T.E. Bills. 2014. Seasonal resource selection and distributional response by elk to development of a natural gas field. *Rangeland Ecology and Management* 67:369–379. doi: <http://dx.doi.org/10.2111/REM-D-13-00136.1>
23. Gregory, A.J., and **J.L. Beck**. 2014. Spatial heterogeneity in response of male greater sage-grouse lek attendance to energy development. *PLoS One* 9(6): e97132. doi:10.1371/journal.pone.0097132
24. **Beck, J.L.**, D.T. Booth, and C.L. Kennedy. 2014. Assessing greater sage-grouse breeding habitat with aerial and ground imagery. *Rangeland Ecology and Management* 67:328-332. doi: 10.2111/REM-D-12-00141.1
25. Dinkins, J.B., M.R. Conover, C.P. Kirol, **J.L. Beck**, and S.N. Frey. 2014. Greater sage-grouse hen survival: effects of raptors, anthropogenic and landscape features, and hen behavior. *Canadian Journal of Zoology* 92:319–330. doi: 10.1139/cjz-2013-0263
26. LeBeau, C.W., **J.L. Beck**, G.D. Johnson, and M.J. Holloran. 2014. Short-term impacts of wind energy development on greater sage-grouse fitness. *Journal of Wildlife Management* 78:522–530. doi: 10.1002/jwmg.679
27. Boyd, C.S., **J.L. Beck**, and J.A. Tanaka. 2014. Livestock grazing and sage-grouse habitat: impacts and opportunities. *Journal of Rangeland Applications* (online journal <http://journals.lib.uidaho.edu/index.php/jra/index>): 1:58–77. ISSN: 2331-5512.
28. Hess, J.E., and **J.L. Beck**. 2014. Forb, insect, and soil response to burning and mowing Wyoming big sagebrush in greater sage-grouse breeding habitat. *Environmental Management* 53:813–822. doi: 10.1007/s00267-014-0246-6
29. Smith, K.T., C.P. Kirol, **J.L. Beck**, and F.C. Blomquist. 2014. Prioritizing winter habitat quality for greater sage-grouse in an energy-disturbed landscape. *Ecosphere* 5: Article 15. <http://dx.doi.org/10.1890/ES13-00238.1>.
30. **Beck, J. L.**, K.T. Smith, J.T. Flinders, and C.L. Clyde. 2013. Seasonal habitat selection by elk in north central Utah. *Western North American Naturalist* 73:442–456. doi.org/10.3398/064.073.0414
31. Gamo, R.S., J.D. Carlisle, **J.L. Beck**, J.A.C. Bernard, and M.E. Herget. 2013. Greater sage-grouse in Wyoming: an umbrella species for sagebrush dependent wildlife. *The Wildlife Professional* 7:56–59.
32. Dinkins, J.B., M.R. Conover, C.P. Kirol, and **J.L. Beck**. 2012. Greater sage-grouse (*Centrocercus urophasianus*) select nest-sites and brood-sites away from avian predators. *The Auk* 129:600–610. doi: 10.1525/auk.2012.12009
33. Hess, J.E., and **J.L. Beck**. 2012. Disturbance factors influencing greater sage-grouse lek abandonment in north-central Wyoming. *Journal of Wildlife Management* 76:1625–1634. doi: 10.1002/jwmg.417
34. **Beck, J.L.**, J.W. Connelly, and C.L. Wambolt. 2012. Consequences of treating Wyoming big sagebrush to enhance wildlife habitats. *Rangeland Ecology and Management* 65:444–455. doi: 10.2111/REM-D-10-00123.1
35. Fedy, B.C., C.L. Aldridge, K.E. Doherty, M. O'Donnell, **J.L. Beck**, B. Bedrosian, M.J. Holloran, G.D. Johnson, N.W. Kaczor, C.P. Kirol, C.A. Mandich, D. Marshall, G. McKee, C. Olson, C.C. Swanson, and B.L. Walker. 2012. Interseasonal movements of greater sage-grouse, migratory behavior, and an assessment of the core regions concept in Wyoming. *Journal of Wildlife Management* 76:1062–1071. doi: 10.1002/jwmg.337
36. Kirol, C.P., **J.L. Beck**, J.B. Dinkins, and M.R. Conover. 2012. Microhabitat selection for nesting and brood-rearing by the greater sage-grouse in xeric big sagebrush. *The Condor* 114:75-89. doi: 10.1525/cond.2012.110024
37. Hess, J.E., and **J.L. Beck**. 2012. Burning and mowing Wyoming big sagebrush: do treated sites meet minimum guidelines for greater sage-grouse breeding habitats? *Wildlife Society Bulletin* 36:85-93. doi: 10.1002/wsb.92
38. **Beck, J.L.**, R.D. Meador, B.W. Hess, G.E. Moss, and S.L. Lake. 2011. Case study: effect of cattle and sheep grazing on stocking rate and botanical composition of subirrigated pasture. *Professional Animal Scientist* 27:500–504.

**Peer-Refereed Journals** (chronological within a year; student author; continued)

39. Davies, K.W., C.S. Boyd, **J.L. Beck**, J.D. Bates, T.J. Svejcar, and M.A. Gregg. 2011. Saving the sagebrush sea: an ecosystem conservation plan for big sagebrush plant communities. *Biological Conservation* 144:2573–2584. doi:10.1016/j.biocon.2011.07.016
40. Doherty, K.E., **J.L. Beck**, and D.E. Naugle. 2011. Comparing ecological site descriptions to habitat characteristics influencing greater sage-grouse nest site occurrence and success. *Rangeland Ecology and Management* 64:344–351. doi: 10.2111/REM-D-10-00120.1
41. **Beck, J.L.**, R.C. Skorkowsky, and G.D. Hayward. 2011. Estimating occupancy to monitor northern goshawk in the central Rocky Mountains. *Journal of Wildlife Management* 75:513–524. doi: 10.1002/jwmg.69
42. **Beck, J.L.**, D.C. Dauwalter, K.G. Gerow, and G.D. Hayward. 2010. Design to monitor trend in abundance and presence of American beaver (*Castor canadensis*) at the national forest scale. *Environmental Monitoring and Assessment* 164:463–479. doi: 10.1007/s10661-009-0907-8
43. **Beck, J.L.**, J.W. Connelly, and K.P. Reese. 2009. Recovery of greater sage-grouse habitat features in Wyoming big sagebrush following prescribed fire. *Restoration Ecology* 17:393–403. doi: 10.1111/j.1526-100X.2008.00380.x
44. **Beck, J.L.**, K.P. Reese, J.W. Connelly, and M.B. Lucia. 2006. Movements and survival of juvenile greater sage-grouse in southeastern Idaho. *Wildlife Society Bulletin* 34:1070–1078.
45. **Beck, J.L.**, J.M. Peek, and E.K. Strand. 2006. Estimates of elk summer range nutritional carrying capacity constrained by probabilities of habitat selection. *Journal of Wildlife Management* 70:283–294.
46. Reese, K.P., **J.L. Beck**, P. Zager, and T.E. Heekin. 2005. Nest and brood site characteristics of mountain quail in west-central Idaho. *Northwest Science* 79:254–264.
47. **Beck, J.L.**, and J.M. Peek. 2005. Great Basin summer range forage quality: do plant nutrients meet elk requirements? *Western North American Naturalist* 65:516–527.
48. **Beck, J.L.**, K.P. Reese, P. Zager, and T.E. Heekin. 2005. Simultaneous multiple clutches and female breeding success in mountain quail. *The Condor* 107:891–899.
49. **Beck, J.L.**, and J.M. Peek. 2005. Diet composition, forage selection, and potential for forage competition among elk, deer, and livestock on aspen-sagebrush summer range. *Rangeland Ecology and Management* 58:135–147.
50. **Beck, J.L.**, and J.M. Peek. 2004. Herbage productivity and ungulate use of northeastern Nevada mountain meadows. *Journal of Range Management* 57:376–383.
51. **Beck, J.L.**, D.L. Mitchell, and B.D. Maxfield. 2003. Changes in the distribution and status of sage-grouse in Utah. *Western North American Naturalist* 63:203–214.
52. **Beck, J.L.**, and D.L. Mitchell. 2000. Influences of livestock grazing on sage grouse habitat. *Wildlife Society Bulletin* 28:993–1002.

**Peer-Refereed Book Chapters and Textboxes**

1. Taylor, K. T., **J. L. Beck**, S. V. Huzurbazar, and S. E. Albeke. 2017. Box 11.2, Response of wintering pronghorn to wind energy development in south-central Wyoming. Pages 228–230 In Chapter 10: Terrestrial Mammals by J. O. Helldin, A. Skarin, W. Neumann, M. Olsson, J. Jung, J. Kindberg, N. Lindberg and F. Widemo. M. Perrow, editor. *Wildlife and Wind Farms – Conflicts and Solutions*. Volume 1 Onshore: Potential Effects. Pelagic Publishing, Exeter, United Kingdom.
2. Pyke, D.A., J.C. Chambers, **J.L. Beck**, M.L. Brooks, and B.A. Meador. 2016. Land uses, fire, and invasion: Exotic annual *Bromus* and human dimensions. Pages 307–337 in M. J. Germino, J. C. Chambers, and C. S. Brown, editors. *Exotic Bromo-Grasses in Arid and Semi-Arid Ecosystems of the Western US: Causes, Consequences, and Management Implications*, Springer International Publishing, Switzerland.
3. **Beck, J.L.**, and L.H. Suring. 2009. Wildlife habitat–relationships models: description and evaluation of existing frameworks. Pages 251–285 in J. J. Millspaugh, and F. R. Thompson, III, editors. *Models for Planning Wildlife Conservation in Large Landscapes*. Elsevier Science, Amsterdam, Netherlands.

**Other Research and Outreach Productivity**

- Peer-Refereed Proceedings = 4 (1 w/undergraduate students)
- Experiment Station and Cooperative Extension Service Bulletins = 4 (2 w/graduate students)
- Government Research Reports and Papers = 13
- Popular Press Articles (authored, edited, or about my activities) = 13 (6 w/graduate students)
- University Final Research Reports = 11 (6 w/graduate students)
- *Ad hoc* Scientific Committee Reports = 1
- Abstracts = 153 (109 w/graduate students; 6 w/undergraduate students)
- Invited Research Presentations = 57 (22 w/graduate students)
- Invited Research Outreach Presentations = 32 (18 w/graduate students)
- Contributed Research Presentations = 161 (109 w/graduate students; 5 w/undergraduate students)
- Scientific Journal Manuscript Reviewer = 72 manuscripts from 26 journals
- Committee Member – University of Wyoming Institutional Animal Care and Use Committee (2013–present)

**Other Research and Outreach Productivity** (continued)

- Co-organizer (w/Pete Stahl, Director of Wyoming Reclamation and Restoration Center) – Wyoming Habitat Restoration Workshops (2014–2016)
- Sage-Grouse Research Compiler (2011–2016). Compiled research summaries for sage-grouse and habitat studies being conducted in Wyoming for the Wyoming Game and Fish Department
- Associate Editor – *Human-Wildlife Interactions* (2017–present)
- Associate Editor – *Western North American Naturalist* (2006–2008)

**Graduate Students Advised (Chair, 2 MS and 3 PhD; Co-chair, 1 PhD)**

1. **Courtney J. Duchardt** (PhD Student) – Ecology, Department of Ecosystem Science and Management. Start Date: August 2015. Expected graduation date: December 2020. Dissertation topic: *Optimizing landscape management for multiple bird guilds on the Thunder Basin National Grassland, Wyoming*
2. **Jacob D. Hennig** (PhD Student; co-advised with Dr. J. Derek Scasta) – Rangeland Ecology and Watershed Management, Department of Ecosystem Science and Management. Start Date: August 2016. Expected graduation date: December 2021. Dissertation topic: *Wild horse spatial movement patterns across the public-private land ownership matrix*
3. **Joshua L. Leonard** (PhD Student) – Ecology, Department of Ecosystem Science and Management. Start Date: August 2016. Expected graduation date: December 2021. Dissertation topic: *Long-term response of greater sage-grouse populations to Wyoming big sagebrush habitat enhancement treatments*
4. **Jason R. LeVan** (MS Student) – Rangeland Ecology and Watershed Management, Department of Ecosystem Science and Management. Started: August 2014. Expected graduation date: August 2017. Thesis topic: *Short-term response of greater sage-grouse populations to Wyoming big sagebrush habitat enhancement treatments*
5. **Aaron C. Pratt** (PhD Candidate) – Ecology, Department of Ecosystem Science and Management. Started: August 2011. Expected graduation date: May 2017. Dissertation topic: *Migration ecology and response of greater sage-grouse to bentonite mining*
6. **Adele K. Reinking** (MS Student) – Rangeland Ecology and Watershed Management, Department of Ecosystem Science and Management. Started August 2013. Expected graduation date: May 2017. Thesis topic: *Response of pronghorn in the Red Desert, Wyoming to environmental and anthropogenic change*

**Graduate Students Completed (In order of completion; Major Advisor/Co-advisor: 5 MS, 4 PhD)**

1. **Kurt T. Smith** (PhD; Major Advisor) – Ecology, Department of Ecosystem Science and Management. Started: August 2010. Graduation date: December 2016. Dissertation title: *Identifying habitat quality and population response of greater sage-grouse to treated Wyoming big sagebrush habitats*
2. **R. Scott Gamo** (PhD; Major Advisor) – Rangeland Ecology and Watershed Management, Department of Ecosystem Science and Management. Started: January 2012. Graduation date: May 2016. Dissertation title: *Effectiveness of Wyoming's Sage-Grouse Executive Order in conserving greater sage-grouse and mule deer and influence of energy development on big game harvest*
3. **Clay B. Buchanan** (PhD; Major Advisor) – Ecology, Department of Ecosystem Science and Management. Started: August 2008. Graduation date: May 2015. Dissertation title: *Elk response to disturbance from development of a coal bed natural gas field in northeast Wyoming*
4. **Justin G. Clapp** (MS; Major Advisor) – Rangeland Ecology and Watershed Management, Department of Ecosystem Science and Management. Started: August 2012. Graduation date: May 2015. Thesis title: *Habitat ecology and effects of fire-mediated habitat alteration for bighorn sheep translocated to the Seminoe Mountains, Wyoming*
5. **Eric J. Wald** (PhD; co-advised with Dr. Larry Munn) - Rangeland Ecology and Watershed Management, Department of Ecosystem Science and Management. Started: January 2011. Graduated: December 2015. Dissertation title: *Management of an expanding moose (*Alces alces*) population on the Yukon-Kuskokwim Delta, Alaska*
6. **Kaitlyn L. Taylor** (MS; Major Advisor) – Rangeland Ecology and Watershed Management, Department of Ecosystem Science and Management. Started: January 2011. Graduated: May 2014. Thesis title: *Pronghorn (*Antilocapra americana*) response to wind energy development on winter range in south-central, Wyoming*
7. **Chad W. LeBeau** (MS; Major Advisor) – Rangeland Ecology and Watershed Management, Department of Ecosystem Science and Management. Started: January 2010. Graduated: August 2012. Thesis title: *Evaluation of greater sage-grouse reproductive habitat and response to wind energy development in south-central, Wyoming*
8. **Christopher P. Kirol** (MS; Major Advisor) – Rangeland Ecology and Watershed Management, Department of Ecosystem Science and Management. Started: August 2008. Graduated: May 2012. Thesis title: *Quantifying habitat importance for greater sage-grouse (*Centrocercus urophasianus*) population persistence in an energy development landscape*
9. **Jennifer E. Hess** (MS; Major Advisor) – Rangeland Ecology and Watershed Management, Department of Ecosystem Science and Management. Started: August 2008. Graduated: May 2011. Thesis title: *Greater sage-grouse (*Centrocercus urophasianus*) habitat response to mowing and prescribed burning Wyoming big sagebrush and the influence of disturbance factors on lek persistence in the Bighorn Basin, Wyoming*

### Graduate Student Committee Service

- Committee member for completed graduate students = 19 (4 PhD and 15 MS)
- Committee member for current graduate students = 12 (4 PHD and 8 MS)

### Graduate Student Awards (students whom I advised in my lab)

- 2016 Kurt Smith (PhD), Outstanding PhD student in the College of Agriculture and Natural Resources. Award presented by University of Wyoming chapter of Gamma Sigma Delta
- 2016 Kurt Smith (PhD), First Place in the PhD-level oral research presentation competition 69<sup>th</sup> Annual Conference of the Society for Range Management, Corpus Christi, Texas
- 2015 Justin Clapp (MS), Outstanding MS student in Rangeland Ecology and Watershed Management. Award presented by University of Wyoming chapter of Gamma Sigma Delta
- 2014 Clay Buchanan's (PhD), article "Focus area research indicates elk response to energy development," was selected as the 2014 student article for the University of Wyoming, Agricultural Experiment Station, *Reflections Magazine*
- 2014 Clay Buchanan (PhD), Outstanding PhD student from Ecosystem Science and Management. Award presented by University of Wyoming chapter of Gamma Sigma Delta
- 2013 Chris Kirol (MS), Outstanding M.S. Thesis Award for 2013 from the Graduate Council of the University of Wyoming
- 2011 Jennifer Hess (MS), Outstanding MS student in the College of Agriculture and Natural Resources. Award presented by University of Wyoming chapter of Gamma Sigma Delta
- 2010 Clay Buchanan (MS), Best PhD poster and the best overall poster awards. Student research-in—progress poster session, The Wildlife Society, 17<sup>th</sup> Annual Conference, Snowbird, Utah
- 2010 Chris Kirol (MS), Outstanding MS student in Rangeland Ecology and Watershed Management. Award presented by University of Wyoming chapter of Gamma Sigma Delta

### Postdoctoral Research Associate Mentoring

1. Dr. Kurt T. Smith (postdoc at University of Wyoming). Primary topic: Identification and modeling of sage-grouse winter concentration areas. Secondary topic: elk and pronghorn resource selection in response to wind energy development (2017–present)
2. Dr. Jonathan B. Dinkins (postdoc at University of Wyoming). Primary topic: Influence of fall harvest on trends in sage-grouse populations. Secondary topic: effectiveness of Wyoming Sage-grouse Core Areas (2013–2016)
3. Dr. Andrew J. Gregory (co-investigator with me, while a postdoc at Northern Arizona University; 2010–2013). Primary topic: Spatial heterogeneity in response of male greater sage-grouse lek attendance to energy development (2010–2013)

**RESEARCH GRANTS RECEIVED** Career total = **\$7,370,302.91** (\$7,332,254.91 [99.5% my funding]); **\$7,154,589.91** (97.1% of career total) since arriving at University of Wyoming in 2007.

### Supporting Entities Funding my Research at the University of Wyoming

#### *Energy and Mining Industries*

American Colloid Company; Anadarko Petroleum Company; Black Diamond Minerals, LLC; BP Corporation North America; enXco; Devon Energy; Horizon Wind Energy; Iberdrola Renewables; Linn Energy; Marathon Oil Corporation/Pennaco; Memorial Resource Development; PacifiCorp; Petro-Canada; Samson Resources; Warren Resources

#### *Federal Agencies*

USDA–Agricultural Research Service; USDA–Forest Service; USDA–MacIntire-Stennis Formula Grant; USDI Bureau of Land Management–Bureau Planning System funding; USDI–Bureau of Land Management–Energy Pilot funding; USDI–Bureau of Land Management–Special Status Species Populations and Habitats; USDI–Wild Horse Research Committee

#### *National and State Organizations*

Avian Power Line Interaction Committee; National Fish and Wildlife Foundation; Western Association of Fish and Wildlife Agencies; National Wind Coordinating Collaborative–Sage-grouse Collaborative; Wyoming Sportsmen for Fish and Wildlife, Wyoming Wild Sheep Foundation

#### *State Agencies*

Bates Hole, Bighorn Basin, South-Central, Southwest, and Wind River/Sweetwater River Local Sage-Grouse Work Groups; Wyoming Game and Fish Department–Sage-Grouse Conservation Fund; Wyoming Governor's Big Game License Coalition–Bighorn Sheep and All Species Project Committees; Wyoming Department of Agriculture; Wyoming Wildlife and Natural Resources Trust

**Supporting Entities Funding my Research at the University of Wyoming** (continued)*University of Wyoming*

Agricultural Experiment Station; College of Agriculture Dean's Discretionary Funds; Cooperative Extension Service; Margaret and Sam Kelly Ornithological Research Fund; Office of Academic Affairs; School of Energy Resources; Wyoming Reclamation and Restoration Center

**Professional Awards**

- 2015 Nominated for Professional of the Year, Wyoming Chapter of The Wildlife Society
- 2013 2013 Early Career Undergraduate Teaching Award, Range Science Education Council and the Society for Range Management
- 2012 Wyoming Game and Fish Department, Team of the Year Award (2011) – Interagency Sage-Grouse Core Area Strategy Implementation Team
- 2012 University of Wyoming Agricultural Experiment Station, Early Career Research Achievement Award

**Award Nominator**

- 2015 Anadarko Petroleum – 2015 Research Partner Award, Awarded by College of Agriculture and Natural Resources, University of Wyoming

**University of Wyoming Coach for Society for Range Management Undergraduate Range Management Exam Team**

UW team placement/total college and university teams competing in national competition

- 2014 – Orlando, FL – 4/21
- 2013 – Oklahoma City, OK – 8/27
- 2012 – Spokane, WA – 2/25
- 2011 – Billings, MT – 2/25
- 2010 – Denver, CO – 2/23
- 2009 – Albuquerque, NM – 5/23
- 2008 – Louisville, KY – 2/20

**Undergraduate Courses Taught at University of Wyoming** (25, 3-credit hour semester classes taught)

- 2008–2011 Range Judging (REWM 3390; spring semester)
- 2008 Rangeland Restoration Ecology (REWM 4580/5580; spring semester 2008 only)
- 2008–2016 Rangeland Ecosystem Assessment and Monitoring (REWM 4330; fall semester)
- 2009–2017 Rangeland Vegetation Management Techniques (REWM 4850; spring semester)
- 10,12,14,16,17 Wildlife Habitat Restoration Ecology (REWM 4750 [4750/5750]; spring semester of even years)
- 2010–2012 Undergraduate Teaching Practicum (REWM 4990; fall semester)
- 11, 15 Problems (REWM 4540)
- 08, 11, 14, 15 Internship (REWM 4550)

**Graduate Courses Taught at University of Wyoming** (5, 3-credit hour and 5, 2-credit hour semester classes taught)

- 10,12,14,16,17 Wildlife Habitat Restoration Ecology (REWM 5750 [4750/5750]; spring semester of even years)
- 09, 11, 13, 15 Wildlife Habitat Ecology (REWM 5830; spring semester of odd years)
- 2008–2016 Thesis Research (REWM 5960; spring semester, summer session, and fall semester)
- 2008–2016 Dissertation Research (REWM 5980; spring semester, summer session, and fall semester)
- 2015 Modeling Resource Selection and Habitat-Based Demography (RNEW 5990-03; team-taught w/Jonathan Dinkins)
- 9, 11, 12, 15, 16 Investigation (REWM 5640)
- 2017 Investigation (RNEW 5990)

**Invited Lectures = 29 (3 w/graduate students)**

**Invited Teaching Seminars = 3**