

Brian A. Mealor

Assistant Professor and Extension Weed Specialist; Department of Plant Sciences

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ACADEMIC TRAINING

<i>Degree</i>	<i>Year</i>	<i>Institution</i>	<i>Major</i>
Ph.D.	2006	University of Wyoming	Rangeland Ecology & Watershed Mgt.
M.S.	2003	University of Wyoming	Rangeland Ecology & Watershed Mgt.
B.S.	1999	N. Georgia College & State University	Biology

PROFESSIONAL EXPERIENCE

<i>Date</i>	<i>Position</i>	<i>Institution</i>
11/09-present	Assistant Prof. / Weed Specialist	University of Wyoming
1/07-9/09	Director of Stewardship	The Nature Conservancy
8/06-1/07	Post-doctoral Research Scientist	University of Wyoming
7/04-12-04	Visiting Research Assistant	USDA-ARS Forage and Range Lab

TEACHING CONTRIBUTIONS

- Problems in Plant Science (PLNT 4975), Summer 2011. One student at remote location.
- Agroecology Internship (AECL 4930), Spring, Summer, Fall 2011-present. Revised course to include presentations open to all students/faculty
- Invasive Plant Ecology (REWM/AECL 4400/5400, 3 credits), Fall 2010-present. Team-taught with Tim Collier, Renewable Resources
- Commercial Pesticide Applicator's Training (PLNT 1150, 1 credit). Spring 2009-11. Invasive Weeds, Factors affecting herbicide uptake, Rights-of-way.
- Rangeland Restoration Ecology (REWM 4580/5580; 3 credits), Spring 2007. Modified existing course to include significant online component.
- Co-lecturer; Seminar in Invasive Species Ecology (RNEW 5985 – 2 credits), Fall 2003. Developed course with co-lecturer from pre-existing course.
- Teaching Assistant; Rangeland Resource Management (REWM 5000; 3 credits), Lectures on invasive species, stocking rates, grazing systems, state and transition theory, biological diversity, etc. Fall 2002

Guest Lectures

- Career Opportunities in Rangeland Ecology and Management. Wild Land Ecology, Southern Utah University. Spring 2012.
- Rangeland Reclamation. Introduction to Natural Resources, Southern Utah University. Spring 2012.
- Managing Rangeland Vegetation with Herbicides. Rangeland Vegetation Management Techniques (REMW 4330). Spring 2012.
- Invasive Species and Restoration. Rangeland Restoration Ecology (REWM 4580/5580), Spring 2012
- Grazing management and planning for rangeland ecosystems. Nutritional Management ANSC 4100/5100. Fall 2011, Fall 2012.
- Grazing and Biodiversity, U.W. Range Resource Management (REWM 5000; 3 credits), Fall 2005.

Genetic Considerations in Rangeland Restoration, Rangeland Restoration Ecology (REWM 4580/5580; 3 credits), Spring 2004

PUBLICATIONS (*authors in italics are student co-authors*)

Refereed

Mealor, B.A., S. Cox and D.T. Booth. 2012. Post-fire Downy Brome (*Bromus tectorum*) Invasion at High Elevation in Wyoming. *Invasive Plant Science and Management online early at* <http://dx.doi.org/10.1614/IPSM-D-11-00096.1>

Sebade, B., A.L. Hild and **B.A. Mealor**. 2012. Native grasses collected from invasions demonstrate invasion resistance. *Ecological Restoration* 30:209-217.

Pocewicz, A., J.M. Kiesecker, G.P. Jones, H.E. Copeland, J. Daline and **B.A. Mealor**. 2010. Effectiveness of conservation easements for reducing development and maintaining biodiversity in sagebrush ecosystems. *Biological Conservation*. 144:567-574. *Cited by 1*

Bergum, K., A.L. Hild and **B.A. Mealor**. 2010. Phenotypic traits of *Sporobolus airoides* from invaded and non-invaded exotic invasions after two generations of greenhouse seed increase. *Restoration Ecology* 20: 227-233. (2012, first published online in 2010) *Cited by 2*

Ferrero-Serrano, A.L. Hild and **B.A. Mealor**. 2009. Can invasive species enhance competitive ability and restoration potential in native grass populations? *Restoration Ecology* 9:545-551. *Cited by 6*

Ferrero-Serrano, A., T.R. Collier, A.L. Hild, **B.A. Mealor**, and T. Smith. 2008. Combined impacts of native grass competition and introduced weevil herbivory on Canada thistle (*Cirsium arvense*). *Rangeland Ecology and Management*. 61: 529-534. *Cited by 14*

Tyrer, S.J., A.L. Hild, **B.A. Mealor** and L.C. Munn. 2007. Establishment of native species in soils from Russian knapweed (*Acroptilon repens*) invasions. *Rangeland Ecology and Management*. 60: 604-612. *Cited by 2*

Kinter, C.L., **B.A. Mealor**, N.L. Shaw and A.L. Hild. 2007. Post-fire invasion potential of rush skeletonweed (*Chondrilla juncea*). *Rangeland Ecology and Management*. 60: 386-394. *Cited by 5*

Mealor, B.A. and A.L. Hild. 2007. Post-invasion evolution of native plant populations: a test of biological resilience. *Oikos*. 116: 1493-1500. *Cited by 21*

Mealor, B.A. and A.L. Hild. 2006. Potential selection in native grasses by exotic invasion. *Molecular Ecology*. 15:2291-3000. *Cited by 34*

Ferrero-Serrano, A., T. Collier, **B.A. Mealor**, T. Smith, and A.L. Hild. 2006. Interactions between native grass competition and biological control for Canada thistle control. *Ecological Restoration*. 24: 201-202.

Mealor, B. A., A.L. Hild, & N. L. Shaw. 2004. Native plant community composition and genetic diversity associated with long term weed invasions. *Western North American Naturalist*. 64:503-513. *Cited by 18*

Extension Publications

Greet, B.J., **B.A. Mealor** and A.R. Kniss. Does larkspur control make financial sense? Wyoming Livestock Roundup. March 11, 2013.

- Mealor, B.A.** 2013. Moth mullein – a new weed species for Wyoming. Wyoming Native Plant Society Newsletter.
- Mealor, B.A.** 2013. Increased cooperation for effective weed management. Wyoming Livestock Roundup. January 30, 2013.
- Hufford, K., R. Mealor and **B.A. Mealor**. 2012. Variation among seed sources of plant species for reclamation. Agricultural Experiment Station Field Days Bulletin.
- Hergert, H.J., B.A. Mealor*, A.R. Kniss, R.D. Mealor and R.A. Rapp. 2012. An evaluation of desirable species' competitive ability against downy brome. Agricultural Experiment Station Field Days Bulletin.
- Hergert, H.J., B.A. Mealor*, A.R. Kniss and R.A. Rapp. 2012. Desirable reclamation and restoration species seedling response to aminocyclopyrachlor. Agricultural Experiment Station Field Days Bulletin.
- Hergert, H.J., B.A. Mealor* and A.R. Kniss. 2012. Effects of preemergence application of Matrix, Plateau and Aminocyclopyrachlor on downy brome. Agricultural Experiment Station Field Days Bulletin.
- Fowers, B., B.A. Mealor* and A.R. Kniss. 2012. Developing weed management strategies to improve reclamation of drastically disturbed lands. Agricultural Experiment Station Field Days Bulletin.
- Mealor, B.A.** 2012. Alien Sightings in Wyoming? Wyoming Livestock Roundup. Nov 10, 2012.
- Mealor, B.A.** 2012. Wildfire, Weeds and Worry. Wyoming Livestock Roundup. July 28, 2012.
- Mealor, B.A.** 2012. Environmental Stress May Affect Weed Control. Wyoming Livestock Roundup. June 2, 2012.
- Mealor, B.A.** and A. Peterson. 2012. Minimizing Impacts of Weeds in your Hay. Wyoming Livestock Roundup. April, 14, 2012.
- Mealor, B.A.** 2012. Weed Management...There's an App for That? Wyoming Livestock Roundup. February 18, 2012.
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- Mealor, B.A.** 2011. Proceed with Caution: Unintended Consequences May be Ahead. Wyoming Livestock Roundup. October 29, 2011.
- Mealor, B.A.** 2011. Cheatgrass Management – FAQ's. Wyoming Livestock Roundup. September 23, 2011.
- Mealor, B.A.** 2011. Weeds of Mongolia. Wyoming Livestock Roundup. July 9, 2011.
- Mealor, B.A.** 2011. Wyoming Invasive Weed Awareness. Wyoming Livestock Roundup. May 14, 2011.
- Mealor, B.A.** 2011. All in the timing – There's a season for everything and one is weed management. Barnyards and Backyards, Spring 2011 5-6.
- Mealor, B.A.** 2011. Strategic Weed Management, Part 5. Assessing weed distribution. Wyoming Livestock Roundup.
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- Mealor, B.A.** and R.D. Mealor 2010. Strategic Weed Management, Part 4. Turning Liabilities into Assets. Wyoming Livestock Roundup December 11, 2010
- Mealor, B.A.** 2010. You Can Help Keep Invasive Weeds at Bay. Barnyards and Backyards, Fall 2010 17-17.
- Mealor, B.A.** 2010. Strategic Weed Management, Part 3. Ensuring Correct Herbicide Application. Wyoming Livestock Roundup October 23, 2010

Mealor, B.A. 2010. Strategic Weed Management, Part 2. Control Options. Wyoming Livestock Roundup September 7, 2010.

Mealor, R.D. and **B.A. Mealor**. 2010. Picking plants: How to collect and preserve plants for identification. Barnyards & Backyards, Summer 2010: 23-25.

Mealor, B.A. 2010. Strategic Weed Management, Part 1. Assessing impacts of weeds on your property. Wyoming Livestock Roundup July 10, 2010.

Mealor, B.A. 2010. The Cost of Doing Nothing. Wyoming Livestock Roundup May 15, 2010.

Mealor, B.A. 2010. Correct identification of weeds a critical step. Barnyards & Backyards Insert April 2010.

Tyrer, S., **B.A. Mealor**, and A.L. Hild. 2006. Triple threat approach by researchers swats Russian knapweed. Reflections. University of Wyoming, Laramie.

Publications in progress

Hergert, H.J., **B.A. Mealor**, and A.R. Kniss. *in prep.* Response of restoration species seedlings to aminocyclopyrachlor.

Greet, B.J., A.R. Kniss, and **B.A. Mealor**. *In prep.* Response of duncecap larkspur and associated vegetation to aminocyclopyrachlor treatment.

Mealor, B.A. *in prep.* A generalized framework for teaching and interpreting plant invasion and management.

Other Outreach Products

Weed Control Freaks: Wyoming Weed Science in (almost) Real Time Blog Posts

Mealor, B.A. 2012. Will my beautiful garden flower become a crazed invasive weed?

<http://weedcontrolfreaks.com/2012/11/will-my-beautiful-garden-flower-become-a-crazed-invasive-weed/>

Mealor, B.A. 2012. Perennial pepperweed control: research update.

<http://weedcontrolfreaks.com/2012/06/perennial-pepperweed-control-research-update/>

Mealor, B.A. 2012. Dame's rocket on the move. <http://weedcontrolfreaks.com/2012/05/dames-rocket-on-the-move/>

Web-based instructional videos

Mealor, B.A., J. Cotterman, M. Smith, R.D. Mealor and J. Thompson. 2011. Online cheatgrass management workshop with virtual field trip. Available at:

<http://www.uwyo.edu/barnbackyard/resources/weeds.html> - 107 views by 12/1/2012

Mealor, B.A., D. Smith and J. Thompson. 2011. "Watching for weeds and weed Identification" – YouTube instructional video available at:

<http://www.youtube.com/user/BandBWY#p/search/2/zoyrbkzoTz4> - 137 views by 12/1/2012

Mealor, B.A., D. Smith and J. Thompson. 2011. "Weed control and prioritization" – YouTube instructional video available at:

http://www.youtube.com/user/BandBWY#p/search/0/u03zfNn-v_c - 124 views by 12/1/2012

Mealor, B.A., R.D. Mealor and D. Smith. 2010. "Collecting plant specimens for identification and vouchering" – YouTube instructional video available at:
<http://www.youtube.com/watch?v=NhZZDx0vc2k> - 1016 views by 12/1/2012

PRESENTATIONS

Professional meeting presentations (authors in italics are student co-authors)

Greet, B.J., B.A. Mealor and A.R. Kniss. 2013. Economic evaluation of duncecap larkspur with aminocyclopyrachlor. Western Society of Weed Science Annual Meeting. San Diego, CA. (poster)

Mealor, B.A. 2013. A generalized framework for teaching and interpreting plant invasions. Western Society of Weed Science Annual Meeting. San Diego, CA.

Greet, B.J., B.A. Mealor and A.R. Kniss. 2013. Response of duncecap larkspur and associated vegetation to aminocyclopyrachlor. Western Society of Weed Science Annual Meeting. San Diego, CA.

Burnett, S. and **B.A. Mealor**. 2013. Effects of sequential herbicide application on cheatgrass and native vegetation. International Society for Range Management Annual Meeting. Oklahoma City, OK. (poster)

Fowers, B. and **B.A. Mealor**. 2013. Developing weed management strategies to improve reclamation of drastically disturbed lands. International Society for Range Management Annual Meeting. Oklahoma City, OK. (poster)

Hergert, H.J., **B.A. Mealor**, A.R. Kniss and R.D. Mealor. 2012. Effects of preemergence application of rimsulfuron, imazapic and aminocyclopyrachlor on downy brome. Western Society of Weed Science Annual Meeting. Reno, NV.

Hergert, H.J., **B.A. Mealor**, A.R. Kniss and R.D. Mealor. 2012. Desirable reclamation and restoration species seedling response to aminocyclopyrachlor. Western Society of Weed Science Annual Meeting. Reno, NV.

Greet, B.J., A.R. Kniss and **B.A. Mealor**. 2012. Response of duncecap larkspur and associated vegetation to aminocyclopyrachlor. Western Society of Weed Science Annual Meeting. Reno, NV.

LaFantasie, J.J., **B.A. Mealor** and A.R. Kniss. 2012. Black greasewood community response to aminocyclopyrachlor application (poster). Western Society of Weed Science Annual Meeting. Reno, NV.

Mealor, B.A. 2012. Systems in Transition: Integrated management of annual brome at the intersection of great plains grasslands and sagebrush steppe (**Invited**). Ecology and Management of Downy Brome in the West: What Can the Past Tell us About the Future Symposium, Western Society of Weed Science Annual Meeting. Reno, NV.

Mealor, B.A. 2012. Strategic Management of Cheatgrass in Wyoming (**Invited**). Wyoming Landscape Conservation Initiative Annual Science Workshop. Rock Springs, WY.

- LaFantasie, J.J., **B.A. Mealor** and A.R. Kniss. 2012. Black greasewood community response to aminocyclopyrachlor application (poster). International Society for Range Management Annual Meeting. Spokane, WA.
- Ziehl, T., **B.A. Mealor**, J. Kraft, R. Richards and J.D. Sheehan. 2012. EDRR from the ground up – Wyoming’s early detection – rapid response system. Early Detection Rapid Response to Invasive Plants: Feasibility of a Regional and National Program Symposium, International Society for Range Management Annual Meeting. Spokane, WA.
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- Sleugh, B.B., M. Halstvedt, V.F. Peterson, R.G. Wilson, G.M. Sbatella, S. Nissen, **B.A. Mealor**. 2011. Aminopyralid + triclopyr control of Russian olive and saltcedar: Maintaining grass understorey. Western Society of Weed Science Annual Meeting. Spokane, WA.
- Hergert, H.J., **B.A. Mealor**, R.D. Mealor and A.R. Kniss. 2011. Seedling response of 27 native species and 2 exotic weeds to Aminocyclopyrachlor (poster). Western Society of Weed Science Annual Meeting. Spokane, WA.
- Greet, B.J., **B.A. Mealor** and A.R. Kniss. 2011. Control of tall larkspur (*Delphinium occidentale*) with aminocyclopyrachlor (poster). Western Society of Weed Science Annual Meeting. Spokane, WA.
- Knezevic, S.Z., A. Datta, R.E. Rapp, J. Scott, **B.A. Mealor**, R.G. Lym, K.G. Beck and J. Zawierucha. 2011. Control of leafy spurge with imazapic and saflufenacil applied in Spring (poster). Western Society of Weed Science Annual Meeting. Spokane, WA.
- Mealor, B.A.** and D. Blumenthal. 2011. Use and effectiveness of VLSA imagery for invasive weed monitoring in rangelands. International Society for Range Management Annual Meeting. Billings, MT.
- Sebade, B., A.L. Hild, **B.A. Mealor** and T. Smith. 2011. Competition of native grasses from invasion transplanted into Russian knapweed and Canada thistle. International Society for Range Management Annual Meeting. Billings, MT.
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- Knezevic, S.Z., A. Datta, R.E. Rapp, J. Scott, **B.A. Mealor**, R.G. Lym, K.G. Beck and J. Zawierucha. 2010. Control of leafy spurge with imazapic and saflufenacil (poster). North Central Weed Science Society Annual Meeting. Lexington, KY.
- Mealor, B.A.**, D.T. Booth, S. Cox, H.E. Copeland. 2010. Post-fire cheatgrass dynamics in the southern Wind River Range of Wyoming (paper). Western Society for Weed Science Annual. Waikoloa Village, HI.
- Mealor, B.A.**, D.T. Booth and S. Cox. 2010. Invasion of the highlands: Post-fire *Bromus tectorum* dynamics at high elevations in the southern Wind River Range, Wyoming (poster). International meeting Society for Range Management. Denver, CO.
- Sebade, Brian, A. Hild, **B. A. Mealor** and T. Smith. 2010. Resilience of native grasses from invaded and non-invaded sites transplanted into weed invasions. International Society for Range Management Annual Meeting. Denver, Co.
- Mealor, B.A.** 2010. Impacts of exotic weed invasion and restoration potential of shrubland wildlife habitats in the Intermountain West (paper). Wildland Shrub Symposium. Logan, UT.
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- Sebade, B., A.L. Hild and **B.A. Mealor**. 2009. Resistance and resilience of native grasses competing with exotic species (poster). SERDP & ESTCP Partners in Environmental Technology Technical Symposium & Workshop. Washington D.C.

- Pocewicz, A., M.L. Smith, H.E. Copeland, **B.A. Mealor**, J.M. Kiesecker. 2009. Effects of the cumulative human footprint on sagebrush vegetation and greater sage-grouse abundance (paper). Annual Meeting of The Wildlife Society, Wyoming Chapter. Cody, WY.
- Bergum, K. E.*, A. L. Hild and **B. A. Mealor**. 2009. After invasion: genetic and phenotypic variation of remnant natives in greenhouse production (paper). International meeting Society for Range Management. Albuquerque, NM.
- Bartlett, F. P.*, A. L. Hild, *K. E. Bergum*, **B. A. Mealor** and T. Smith. 2009. Assessing Competitiveness of alkali sacaton genotypes exposed to invasive weeds (paper). International meeting Society for Range Management. Albuquerque, NM.
- Bartlett, F.*, A.L. Hild, **B.A. Mealor**, and T. Smith. 2008. Selection of alkali sacaton genotypes as competitors with Russian knapweed and Canada thistle. SERDP & ESTCP Partners in Environmental Technology Technical Symposium & Workshop. Washington D.C.
- Bergum, K.E.*, A.L. Hild, *F.P. Bartlett*, and **B.A. Mealor**. 2008. Genetic and phenotypic diversity of remnant invaded native grass after two generations (poster). Ecological Society of America Annual Meeting. Milwaukee, WI.
- Bartlett, F.*, A.L. Hild, **B.A. Mealor**, and T. Smith. 2008. Methods to select promising native grass genotypes as competitors with introduced invasive weed species (poster). Joint meeting; American Forage and Grassland Council and the Society for Range Management Annual Meetings. Louisville, KY.
- Bergum, K.E.*, A.L. Hild, **B.A. Mealor**, and T. Smith. 2008. Genetic variation within genotypes of two native grass species after two generations of greenhouse seed source improvement (poster). Joint meeting; American Forage and Grassland Council and the Society for Range Management Annual Meetings. Louisville, KY. Poster.
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- Ferrero-Serrano, A., T. R. Collier, **B. A. Mealor**, A. L. Hild and T. Smith. 2007. Integrated application of biocontrol and native species for invasive plant control: implications for restoration ecology (paper). International Phytotechnologies Conference. Proceedings of the International Phytotechnology Society meetings. Denver, CO.
- Ferrero-Serrano, A., T. Smith, **B. A. Mealor**, T. Collier, S. Enloe, S.D. Miller and A.L. Hild. 2007. Combined action of a stem-boring weevil and native grass competition for control of Canada thistle (poster). Sustainable Military Readiness Conference. Orlando, FL.
- Mealor, B.A.**, C.L. Kinter, N.L. Shaw and A.L. Hild. 2007. Ecological characteristics of sites invaded by rush skeletonweed (*Chondrilla juncea*) on the Snake River Plain (paper). Society for Range Management 60th Annual Meeting. Reno/Sparks, Nevada.
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- Ferrero-Serrano, A., T. Smith, **B.A. Mealor**, T. Collier, S. Enloe, S. Miller, and A.L. Hild. 2006. Combined Action of a stem-boring weevil and native grass competition for control of Canada thistle (*Cirsium arvense*) (paper). NatureServe Leadership Conference Proceedings. Baltimore, MD.
- Ferrero-Serrano, A., A.L. Hild, **B.A. Mealor**, T. Collier, S.F. Enloe, S.D. Miller. 2006. Synergistic action of native plants and a stem boring weevil (*Ceutorhynchus litura*) for control of Canada thistle (*Cirsium arvense*) – an invasive weed (poster). Society for Range Management International Meetings. Vancouver, BC.
- Smith, T., **B.A. Mealor**, A. Ferrero-Serrano, A.L. Hild and T.R. Collier. 2006. Evaluation of selected native plant populations for competition against exotic weeds (poster). SERDP-ESTCP

Partners in Environmental Technology Technical Symposium & Workshop. Washington, D.C.

Tyrer, S.J., A.L. Hild, L.C. Munn, **B.A. Mealor**, S.F. Enloe. 2006. Soil chemical changes associated with Russian knapweed invasions (poster). Society for Range Management International Meetings. Vancouver, BC.

Mealor, B.A. and A.L. Hild. 2006. There goes the neighborhood...or does it? Population resilience to exotic invasion (poster). Society for Range Management International Meetings. Vancouver, BC.

Mealor, B.A., and A.L. Hild. 2006. Native plant population resilience to exotic invasion. UW Graduate Student Symposium (paper). Laramie, Wyoming.

Mealor, B.A. and A.L. Hild. 2004. Native plant population genetics response to long-term coexistence with Russian knapweed (paper). Society for Range Management National Meetings. Salt Lake City, UT.

Mealor, B.A. and A.L. Hild. 2004. Can native plants become competitive with exotic weeds (poster)? Invasive Plants in Natural and Managed Systems. Fort Lauderdale, FL.

Mealor, B.A. and A.L. Hild. 2004. When the going gets tough: native plant population response to long term weed invasion (paper). University of Wyoming Graduate School Research Symposium, Laramie, WY.

Mealor, B. A., A. L. Hild, and N. L. Shaw. 2003. Native plant community response to long term invasion of *Centaurea repens* and *Cardaria draba*. Society for Range Management National Meetings (paper). Casper, WY.

Mealor, B. A., A. L. Hild, and N. L. Shaw. 2002. Native plant community response to long-term invasion by *Centaurea repens* and *Cardaria draba* in Wyoming and Idaho, USA (paper). Biological Invasions in Terrestrial Ecosystems: An Evolutionary Perspective Workshop. Halle, Germany.

Mealor, B. A., A. L. Hild, N. L. Shaw, and D. Kazmer. 2001. Do long-term weed infestations select for competitive natives? (poster) Great Basin Biological Research Conference. Provo, UT.

Mealor, B. A., A. L. Hild, N. L. Shaw, and D. Kazmer. 2001. Do long-term weed infestations select for competitive natives? (poster) SRM-Wyoming Section Meeting. Casper, WY.

Invited extension and outreach presentations authors in italics are student co-authors

1. **Mealor, B.A.** 2012. Ecology and Management of Cheatgrass. Natural Resources Rendezvous, Progressive Rancher Forum (WSGA, WACD, WYSRM). Casper, WY.
2. **Mealor, B.A.** 2012. New and Potentially New Weeds in Wyoming. Wyoming Weed and Pest Fall Conference. Casper, WY.
3. **Mealor, B.A.** 2012. Wyoming Invasive Species Education Team. Wyoming Weed and Pest Fall Conference. Casper, WY.
4. **Mealor, B.A.** 2012. EDDMaPs – a free voluntary weed mapping and data sharing tool. Wyoming Weed and Pest Fall Conference. Casper, WY.
5. **Mealor, B.A.** 2012. Current state of cheatgrass control on rangelands. Cheatgrass Management Panel Discussion. Wyoming Weed and Pest Fall Conference. Casper, WY.

6. **Mealor, B.A.** and R.D. Mealor. 2012. Vegetation Monitoring for Pre-disturbance Inventory. Wyoming Reclamation School. Rock Springs, WY.
 7. **Mealor, B.A.**, A.R. Kniss, *B. Greet, H. Hergert and B. Fowers*. 2012. University of Wyoming Aminocyclopyrachlor Research Update. Denver, CO.
 8. **Mealor, B.A.** 2012. Invasive Grasses of the Southwest. Southwest Noxious Weed Short Course. Farmington, NM.
 9. **Mealor, B.A.** 2012. Herbicide Resistance and How to Avoid It. Southwest Noxious Weed Short Course. Farmington, NM.
 10. **Mealor, B.A.** 2012. Russian Olive and Saltcedar Management in Wyoming. Western Regional Pesticide Meeting. Cody, WY.
 11. **Mealor, B.A.** and R.D. Mealor. 2012. Vegetation Monitoring for Pre-disturbance Inventory. Wyoming Reclamation School. Ucross, WY.
 12. **Mealor, B.A.** 2012. Invasive Weeds on Wyoming's Rangelands. Annual SW Wyoming Pesticide Applicator Training. Rock Springs, WY.
 13. **Mealor, B.A.** 2012. Incorporating Weed Mapping into a Ranch Assessment. Rangeland Vegetation Rendezvous. Laramie, WY.
 14. *Fowers, B.* and **B.A. Mealor**. 2012. Right-of-way weed control, Range weeds. Commercial Pesticide Applicator's Training. Wheatland, WY.
 15. **Mealor, B.A.** 2012. Herbicides: Choices and Signs of Injury. Annual SW Wyoming Pesticide Applicator Training. Rock Springs, WY.
 16. **Mealor, B.A.** 2012. Principles of Weed Control in Reclamation. Reclamation 101 Workshop. Vernal, UT.
 17. **Mealor, B.A.** 2012. Wyoming Weed Science Update. Wyoming Weed and Pest Spring Workshop. Pinedale, WY.
 18. **Mealor, B.A.** 2012. Invasive Species and Small Acreage Development. Sheridan College Natural Resource Seminar Series. Sheridan, WY.
 19. *Hergert, H.J.*, **B.A. Mealor** and A.R. Kniss. 2012. Seedling response of desirable species to aminocyclopyrachlor. Wyoming Plant Materials Committee Annual Meeting. Casper, WY.
 20. Kraft, J., **B.A. Mealor** and R.D. Mealor. 2012. Cheatgrass biology and ecology in Wyoming. Strategic management of cheatgrass in range and pastures workshop. Pinedale, WY.
 21. **Mealor, B.A.** 2012. Cheatgrass management strategies. Strategic management of cheatgrass in range and pastures workshop. Pinedale, WY.
 22. **Mealor, B.A.** 2012. Chemical control of cheatgrass in range and pasture. Strategic management of cheatgrass in range and pastures workshop. Pinedale, WY.
 23. **Mealor, B.A.** 2012. Chemical control of cheatgrass, bulbous bluegrass and foxtail barley in range and pasture: - current options. Grassy Weeds Workshop. Gillette, WY.
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24. **Mealor, B.A.** 2011. Right-of-way Weed Control. Commercial Pesticide Applicators Training. Laramie, WY.
 25. **Mealor, B.A.** 2011. Invasive Weed Management in Rangelands. Commercial Pesticide Applicators Training. Laramie, WY.
 26. **Mealor, B.A.** 2011. Weed Science Update. Van Diest Supply Company Seminar and Workshop. Cheyenne, WY.

27. **Mealor, B.A.** 2011. Cheatgrass control. Wyoming Stock Growers Association Annual Meeting. Casper, WY.
28. **Mealor, B.A.** 2011. Monitoring rangelands for invasive species management. Wyoming Society for Range Management/Wyoming Association of Conservation Districts Joint Meeting. Lander, WY.
29. **Mealor, B.A.** 2011. University of Wyoming Weed Science Update. Wyoming Weed and Pest Council Fall Conference. Gillette, WY.
30. *Hergert, H.J., B.A. Mealor* and A.R. Kniss. 2011. Seedling response of desirable species to aminocyclopyrachlor. Wyoming Weed and Pest Council Fall Conference. Gillette, WY.
31. *Greet, B., B.A. Mealor* and A.R. Kniss. 2011. Control of duncecap larkspur with aminocyclopyrachlor. Wyoming Weed and Pest Council Fall Conference. Gillette, WY.
32. **Mealor, B.A.** 2011. Weed identification and Management. Wyoming Department of Agriculture Technical Services Training. Laramie, WY.
33. **Mealor, B.A.** 2011. Evaluating recovery potential in the field. Strategic management of cheatgrass in range and pastures workshop. Wheatland, WY. may be viewed at: <http://www.youtube.com/user/BandBWY#p/u/7/OVAiLRCQuI8>
34. **Mealor, B.A.** 2011. Cheatgrass management strategies. Strategic management of cheatgrass in range and pastures workshop. Wheatland, WY. may be viewed at: <http://www.youtube.com/user/BandBWY#p/u/4/AzAk8Mx3zLw>
35. **Mealor, B.A.** 2011. Chemical control of cheatgrass in range and pasture. Strategic management of cheatgrass in range and pastures workshop. Wheatland, WY. may be viewed at: <http://www.youtube.com/user/BandBWY#p/u/6/5VVOnauS7gY>
36. *Altermatt, J., B.A. Mealor* and S. Franklin. 2011. Management of woody riparian invaders and cheatgrass in Wyoming. Wyoming Wildlife and Natural Resources Trust Fund Board Meeting. Saratoga, WY.
37. **Mealor, B.A.** 2011. Early Detection Rapid Response Weeds – ID and Management. Detect-Assess-Respond Training. Torrington, WY.
38. **Mealor, B.A.** and T. Ziehl. 2011. Early Detection Rapid Response Weeds – ID and Management. Detect-Assess-Respond Training. Jackson, WY.
39. **Mealor, B.A.** 2011. Identification and Management of Rangeland Weeds. Wyoming Ag Business Convention. Buffalo, WY.
40. **Mealor, B.A.** 2011. New Developments in Rangeland Weed Control. Wyoming Ag Business Convention. Buffalo, WY.
41. **Mealor, B.A.** H.J. Hergert and A.R. Kniss. 2011. Wyoming Aminocyclopyrachlor Rangeland Weed Research Update. Salt Lake City, UT.
42. **Mealor, B.A.** and R.D. Mealor. 2011. Post-reclamation vegetation assessment and monitoring. American Youth Leadership Program with Mongolia. Ereen, Mongolia.
43. *Mealor, R.D. and B.A. Mealor.* 2011. Vegetation monitoring techniques and How to Apply Them. American Youth Leadership Program with Mongolia. Selenge Aimag, Mongolia.
44. **Mealor, B.A.** and R.D. Mealor. 2011. Principles of successful reclamation. American Youth Leadership Program with Mongolia. Baganuur, Mongolia.
45. *Mealor, R.D. and B.A. Mealor.* 2011. Reclamation principles in North America and Mongolia: potential for success. American Youth Leadership Program with Mongolia. Ulaanbaatar, Mongolia.

46. **Mealor, B.A.** 2011. Factors affecting herbicide uptake, range and right-of-way weed control, crop weed control. Area-wide Pesticide Applicator Training. Wheatland, WY.
 47. **Mealor, B.A.** 2011. Principles of Weed Control in Reclamation. Reclamation 101 Workshop. Cheyenne, WY.
 48. **Mealor, B.A.** 2011. The basics of plant identification and weed impacts. Wyoming Conservation Corps Orientation. Vedauwoo, WY.
 49. **Mealor, B.A.** 2011. Principles of Weed Control in Reclamation. Reclamation 101 Workshop. Ft. Washakie, WY.
 50. **Mealor, B.A.** and R.D. Mealor. 2011. Using grazing as a tool for vegetation management. Weed and Pest Educational Series. Pinedale, WY.
 51. **Mealor, B.A.** 2011. Cheatgrass in Wyoming: an overview. Wyoming Weed Management Association Annual Meeting, Casper, WY.
 52. **Mealor, B.A.** 2011. Rangeland Weed Research Update. Wyoming Weed Management Association Annual Meeting, Casper, WY.
 53. *Hergert, H.J.* and **B.A. Mealor**. 2011. Wyoming Weed Watchlist. Wyoming Weed Management Association Annual Meeting, Casper, WY.
 54. **Mealor, B.A.** 2011. Applying Systems Thinking to Invasive Weed Management. Wyoming Weed and Pest Council Spring Workshop. Buffalo, WY.
 55. **Mealor, B.A.** 2011. Principles of Weed Control in Reclamation. Reclamation 101 Workshop. Kemmerer, WY.
 56. **Mealor, B.A.** 2011. Principles of Weed Control in Reclamation. Reclamation 101 Workshop. Worland, WY.
 57. Mealor, R.D. and **B.A. Mealor**. 2011. Agricultural history and the future. University of Wyoming FFA Club. Laramie, WY.
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58. **Mealor, B.A.** 2010. Principles of Weed Control in Reclamation. Reclamation 101 Workshop. Laramie, WY.
 59. **Mealor, B.A.** 2010. Wyoming rangeland weed research update. Wyoming Weed and Pest Council Fall conference. Thermopolis, WY.
 60. **Mealor, B.A.** 2010. Principles of Weed Control in Reclamation. Reclamation 101 Workshop. Cody, WY.
 61. **Mealor, B.A.** 2010. Principles of Weed Control in Reclamation. University of Wyoming Cooperative Extension In-Depth Training, Laramie, WY.
 62. **Mealor, B.A.** 2010. Pre-disturbance inventory: Risk assessment for invasive weeds. Reclamation 201 Workshop. Rock Springs, WY.
 63. **Mealor, B.A.** 2010. Invasive weeds and the sagebrush ecosystem. NRCS Sagebrush Workshop. Lander, WY.
 64. **Mealor, B.A.** 2010. Aminocyclopyrachlor research update – Wyoming Rangeland Weeds. DuPont Research Summit. Denver, CO.
 65. **Mealor, B.A.** and J. Kraft. 2010. Identification of WY noxious weeds. Detect-Assess-Respond Training. Big Piney, WY.
 66. **Mealor, B.A.** 2010. Integrated Weed Management – importance of calibration. Small ruminant grazing workshop. Baggs, WY.

67. **Mealor, B.A.** and R.D. Mealor. 2010. Performing a vegetation inventory. Voices of the Valley Field Days. Saratoga, WY.
 68. **Mealor, B.A.** and R. Lockman 2010. Identification of forbs and shrubs. Wyoming Youth Resource Education Days. Hillsdale, WY.
 69. **Mealor, B.A.** 2010. Plant identification. Heart Mountain Community Hike. Powell, WY.
 70. **Mealor, B.A.** 2010. Crop Weed Control, Right-of-way weed control, Range weeds. Commercial Pesticide Applicator's Training. Wheatland, WY.
 71. **Mealor, B.A.** 2010. Rangeland Weed Management Update. Jackson Hole Weed Management Association. Jackson, WY.
 72. Mealor, R.D. and **B.A. Mealor**. 2010. Ecology and Management of Cheatgrass in Wyoming. Albany County Farm Bureau. Harmony, WY.
 73. **Mealor, B.A.**, R. Gullion, R. Amundson. 2010. Assessing potential impacts of invasive weeds on sage grouse habitat. NRCS sage-grouse habitat workshop. Casper, WY.
 74. **Mealor, B.A.** 2010. Principles of Weed Control in Reclamation. Reclamation 101 Workshop. Buffalo, WY.
 75. **Mealor, B.A.** 2010. Principles of Weed Control in Reclamation. Reclamation 101 Workshop. Pinedale, WY.
 76. **Mealor, B.A.** and R.D. Mealor. 2010. Cheatgrass Ecology and Management on Wyoming's Rangelands. Cody, WY.
 77. **Mealor, B.A.** and R.D. Mealor. 2010. Ecology and Management of Cheatgrass in Wyoming. Powell, WY.
 78. **Mealor, B.A.** 2010. Early Detection/Rapid Response for weed management. BLM Integrated Pest Management Training. Lakewood, CO.
 79. Mealor, R.D. and **B.A. Mealor**. 2010. Sagebrush Management on Wyoming's Rangelands. Jonah Interagency Field Office. Pinedale, WY.
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80. **Mealor, B.A.** 2009. University of Wyoming Weed Science Update. Wyoming Weed Management Association Annual Rendezvous. Casper, WY.
 81. Mealor, R.D. and **B.A. Mealor**. 2009. Practical applications for cheatgrass management. Rocky Mountain Cheatgrass Management Project Workshop. Cheyenne, WY.
 82. **Mealor, B.A.** 2009. University of Wyoming Weed Science Update. Wyoming Weed and Pest Council / Wyoming Association of Conservation Districts fall Conference. Cheyenne, WY.
 83. **Mealor, B.A.** 2009. Weed control in reclamation. Carbon County Reclamation 101 School, Rawlins, WY.
 84. **Mealor, B.A.** 2007. Native plant response to invaders. Wyoming Weed Management Association First Rendezvous. Casper, WY.

HONORS & PROFESSIONAL SOCIETIES

Society for Range Management Outstanding Young Range Professional. 2013.
DuPont Young Professors Nominee. 2012.
Lawrence Meeboer Outstanding Classroom Teacher Nominee. 2010.
Certificate of Appreciation for Outstanding Support. 2010. University of Wyoming Range Club.
University of Wyoming Graduate School; 2006 Outstanding Doctoral Dissertation.

Society for Range Management; 2006 2nd Place PhD Research Poster.
University of Wyoming Range Club; 2005 Outstanding Graduate Student.
University of Wyoming, Graduate School; 2004, 2006 Best Paper Presentation award, Graduate Student Symposium.
Plummer Scholarship for Environment and Natural Resources Conservation and Management; 2004.
Wyoming Section SRM; 2002-2003 Range Graduate Student Scholarship.
Gamma Sigma Delta, University of Wyoming Chapter; 2002-2003 Outstanding M. S. Student.
North Georgia College and State University; 1999 Best Research Paper in Biology.
Erskine Fellow; 1994.
Sewanee, The University of the South; 1994 Award for Excellence.
Rotary Club; 1994 Rotary Youth Leadership Award
Memberships: Society for Range Management, Wyoming Weed Management Association, Western Society of Weed Science, Gamma Sigma Delta Agricultural Honor Society, Phi Kappa Phi Academic Honor Society

PROFESSIONAL SERVICE

National/International activities

Chair, Rangeland Invasive Species Committee, Society for Range Management 2012-13.
Member, Finance Committee, Western Society of Weed Science. 2012-14.
Member, The Nature Conservancy Great Plains Initiative. 2009. Rangeland Management Team.
Reviewer/Contributor, Gunnison Sage Grouse Rangewide Conservation Plan. 2005. Threats from Noxious Weeds Section.
Co-Developer and Co-Chair of the SRM Rangeland Cup Competition. 2006-present. Collaborative, creative problem solving competition for graduate and undergraduate students.
Presenter, European Science Foundation. 2002. Biological Invasions in Terrestrial Ecosystems: An Evolutionary Perspective, Halle, Germany.
Invited Moderator, Wildland Shrub Consortium. 2002. Wildland Shrub Symposium, Laramie, WY.

Reviewer for: Invasive Plant Science and Management, Weed Science, Rangeland Ecology and Management, Journal of Arid Environments, Molecular Ecology

State of Wyoming Activities

President Elect, Society for Range Management, Wyoming Section. 2013.
Member, Wyoming Cheatgrass Task Force, 2012-present.
Member, Wyoming Invasive Species Education Team, 2011-present.
Member, Wyoming Cooperative Ag Pest Survey Advisory Group, 2009-present.
Member, Wyoming State Weed Team, 2009-Present.
Member, Wyoming Coordinated Resource Management Program Executive Committee. 2008-present.
Member, Wyoming Governor's Non-Point Source Task Force. 2008-2011.
Member, Wyoming Plant Materials Committee. 2007-present.

University of Wyoming Activities

Co-advisor, University of Wyoming Range Club. 2013.

Member, SAREC Advisory Committee. 2011-present.

Member, AES-LREC Forage Resources Management Team. 2011-present.

Member, University of Wyoming Ecological Simulation Laboratory Steering Committee. 2009-11.

Undergraduate Range Management Exam (URME) Coach, of Renewable Resources. 2005-2007.

Led team to 1st place finish in international competition.

GRANTS and FUNDING

Pending Grant Proposals

None currently

Awarded Proposals

Wyoming Weed and Pest Council. 2013.	- \$13,790
"Statewide Assessment and Prioritization of Cheatgrass in Wyoming" – Brian A. Mealor	
UW Agricultural Experiment Station Competitive Grant. 2012.	- \$34,600
"Strategic Cheatgrass Management in Wyoming: Landscape-Scale Prioritization and Evaluation of Targeted Grazing" – Brian A. Mealor , Rachel D. Mealor (ESM), Cara Noseworthy	
Wyoming Reclamation and Restoration Center Graduate Assistantship. 2012.	- \$50,000
"Strategic Cheatgrass Management in Wyoming: Landscape-Scale Prioritization" – Brian A. Mealor	
Various Sponsors. 2012.	- \$39,700
USDA National Institute of Food and Agriculture. 2011.	- \$122,000
"Extension Integrated Pest Management Coordination and Support Program" – Scott P. Schell, Alexandre V. Latchininsky, Brian A. Mealor	
Various Sponsors. 2011.	- \$28,200
Bureau of Land Management. 2011.	- \$30,000
"Experimental Herbicide Effects on Weed Competition" – Brian A. Mealor , Andrew R. Kniss, Anowar Islam	
University of Wyoming Global Perspectives Grant. 2010.	- \$4000
"Internationalization of extension, research and teaching programs in rangeland management, invasion ecology and reclamation science" – Brian A. Mealor , Rachel D. Mealor (Renewable Resources)	
University of Wyoming School of Energy Resources Matching Grant. 2010.	- \$85,000
"Developing weed management strategies to improve desirable species establishment in reclamation of disturbed lands" – Brian A. Mealor , Andrew R. Kniss, Anowar Islam	
DuPont Crop Protection Research Grant. 2010.	- \$90,000
"Developing weed management strategies to improve desirable species establishment in reclamation of disturbed lands" – Brian A. Mealor , Andrew R. Kniss, Anowar Islam	
UW Agricultural Experiment Station Competitive Grant. 2010.	- \$28,197
"A Systems Approach for Restoring Cheatgrass Dominated Rangelands" – Brian A. Mealor , Rachel D. Mealor (Renewable Resources), Andrew R. Kniss	
UW Agricultural Experiment Station Competitive Grant. 2010.	- \$52,729

“Carbon-rich Soil Amendments for Ecological Restoration of Drastically Disturbed Rangeland Sites”
– Jay Norton, **Brian A. Mealor**, Matt Anderson, Peter Stahl, Jennifer Faulkner

Apache Corporation Research Partnership. 2010. - **\$30,000**

“Developing weed management strategies to improve desirable species establishment in reclamation of disturbed lands” – **Brian A. Mealor**, Andrew R. Kniss, Anowar Islam

Various Sponsors. 2010. – **\$39,264**

UW Major Equipment Grant. 2010. - **\$21,120**

“Growth Chambers for Plant Science Research” - Kniss, A.R., G. Franc, A. Islam, U. Norton, **B.A. Mealor** and K. Belden

Other Awarded Proposals

National Fish & Wildlife Foundation. 2009. Bull Lake Creek Fisheries Enhancement. – Brian A. Mealor

Foundation for Sustainability and Innovation Project Grant, 2008. Rangeland Conservation Internship Program. – Brian A. Mealor

Water for Wildlife Foundation Project Grant, 2008. Derby Springs and Dry Lake water developments. – Brian A. Mealor

USDA-NRI Research Grant. 2008. “Ecological and Economic Risk Assessment Decision Tool for Management of *Bromus tectorum* Invasions” – Cooperator Brian Mealor; PI Cynthia Brown, Colorado State University.

USDA-CSREES Research Grant, 2003. “Using exotic weed invasions to select competitive native grasses” –Co-Author Brian Mealor; PI Ann Hild

USDOD Research Grant, 2003. “Effectiveness of Selected Native Plants as Competitors with Non-indigenous and Invasive Knapweed and Thistle Species” –Co-Authors Brian Mealor, Ann Hild; PI Thomas Smith, U.S. Army/CERL.

Ecological Society of America Travel Grant, 2004.

University of Wyoming Travel Grants, 2002, 2003, 2005.

Proposals submitted but not awarded

School of Energy Resources Major Equipment Purchase Grant. 2012. Kristina Hufford, Melanie Murphy and **Brian A. Mealor**.

University of Wyoming Agricultural Experiment Station Competitive Grant. 2011. “Short-term goat pasturing to enhance reclamation on drastically disturbed terrestrial surfaces” – Stephen E. Williams, Lani J. Malmberg, **Brian A. Mealor**, Justin D. Derner, Dannelle E. Peck.

Wyoming Reclamation and Restoration Center Graduate Assistantships. 2011. “Strategic restoration of cheatgrass-dominated rangelands in Wyoming.” **Brian A. Mealor**, Lyle King, Jerry Altermatt, Chris Aimone, Rachel Mealor, Ramesh Sivanpillai.

University of Wyoming School of Energy Resources Matching Grant. 2010. “Short-term goat pasturing to enhance reclamation on drastically disturbed terrestrial surfaces” – Stephen E. Williams, Lani J. Malmberg, **Brian A. Mealor**, Justin D. Derner.

USDI – Office of Surface Mining. 2010. “Preventing the establishment of invasive species through the creation of resistant communities – Cheatgrass as a model” – Catherine Tarasoff, Tom Pypker, **Brian A. Mealor**, Co-PI’s.

University of Wyoming Agricultural Experiment Station Competitive Grant. 2009. "Evaluation of native plant materials for cheatgrass restoration in Wyoming" **Brian A. Mealor** with Rachel Mealor Co-PI's.

Student Mentorship

Graduate Students in Progress

Noseworthy, Cara. M.S. Agronomy. Chair.

Fowers, Beth. Ph.D. Agronomy. Co-chair.

Burnett, Shayla. M.S. Agronomy. Chair.

Lorent, Louise. M.S. Agronomy. Committee Member.

Hegert, Mollie. M.S. Rangeland Ecology and Watershed Management. Committee Member.

Liesenfeld, Zachary. M.S. Rangeland Ecology and Watershed Management. Committee Member.

Curran, Michael. M.S. Rangeland Ecology and Watershed Management. Committee Member.

Bergman, Dylan. M.S. Rangeland Ecology and Watershed Management. Committee Member.

Prasser, Nicholas. M.S. Rangeland Ecology and Watershed Management. Committee Member.

Jackson, Abby. M.S. Agricultural Economics. Committee Member.

Irwin, Joshua. M.S. Botany. Committee Member.

Seals, Casey. M.S. Agronomy. Committee Member.

Smith, Kurt. Ph.D. Rangeland Ecology and Watershed Management. Committee Member.

Varelas, Leticia. Ph.D. Rangeland Economics. Committee Member.

Completed Graduate Students

Greet, Brandon. M.S. *Completed December 2012*. Agronomy. Co-chair.

Meyer, Kathleen. M.S. *Completed December 2012*. Entomology. Committee Member.

Hergert, Holden. M.S. *Completed May 2012*. Agronomy. Co-chair.

Driessen, Cally. M.S. *Completed May 2012*. Rangeland Ecology and Watershed Management. Committee Member.

Maan, Lakhvinder. M.S. *Completed December 2010*. Agronomy. Co-chair.

Sebade, Brian. M.S. *Completed December 2010*. Rangeland Ecology and Watershed Management. Committee Member.

Bergum, Karin. M.S. *Completed December 2009*. Rangeland Ecology and Watershed Management. Committee Member.

Bartlett, Franklin. M.S. *Completed May 2009*. Rangeland Ecology and Watershed Management. Committee Member.

Undergraduate Advising

11 undergraduate advisees in the Agroecology program

5 undergraduate research assistants since 2010

Extra-curricular Student Mentorship

Conservation internship mentor, TNC Conservation Internship Program, 2008-9.

Student advisor, University of Wyoming Range Club. 2005-2007.