

Curriculum Vitae

ANN L. HILD

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- Associate Vice President for Graduate Studies**, (interim appointment), 11/14-present; Academic Affairs, University of Wyoming, Laramie, WY.
- Professor, 5/2008 – 11/2014**; (**Associate Professor**, 5/02-5/08; **Assistant Professor** 8/96-5/02), Ecosystem Sciences & Management, University of Wyoming, Laramie, WY.
- Faculty, Program in Ecology**, 2005-present. University of Wyoming Doctorate Program.
- Range Research Scientist**, 11/95-8/96. USDA-ARS, Fort Keogh Livestock and Range Research Laboratory, Miles City, MT. (Post-doctoral position).
- Research Assistant**, 5/95-12/95. Department of Range and Wildlife Management, Texas Tech University, Lubbock, TX. Vegetative mapping of low level radioactive waste site and biosolids land application sites near Sierra Blanca, TX. Prescribed burns, 4500 acres in Conservation Reserve Program, juniper, and native range.
- Teaching Assistant**, 1/91-5/95. Department of Range and Wildlife Management, Texas Tech University, Lubbock, TX. Plant identification and herbarium curator.
- Teaching Assistant**, 1/89-1/91. Department of Agronomy, Horticulture and Entomology, Texas Tech University, Lubbock, TX. Teaching in horticulture and landscape architecture.
- Director of Parks and Recreation**, 6/85-1/89. City of Canyon, TX.
- Forestry Field Specialist**, 3/82-3/85. Urban Forestry Program, City of Cheyenne, WY.

EDUCATION

- Ph.D., Range Management**. December 1995. Department of Range and Wildlife Management, Texas Tech University, Lubbock, TX. Dissertation: Winterfat-blue grama community ecotones under defoliation and removal of domestic herbivory.
- M.S., Ornamental Horticulture**. May 1991. Department of Agronomy, Horticulture and Entomology. Texas Tech University, Lubbock, TX. Thesis: Effects of mulch on the establishment of five southwestern shrub species.
- Biology, graduate study**. 1986-88. West Texas State University, Canyon, Tx.
- Building Trades Certification**. 1981. Laramie County Community College, Cheyenne, WY.
- B.A., Anthropology**. 1977. University of Iowa, Iowa City, IA.

HONORS AND PROFESSIONAL INVOLVEMENT

- Outstanding Alumni, CASNR, Texas Tech University. 2015.**
- Outstanding Advisor, College ANR**, student nomination 2012.
- Outstanding Educator, College ANR**, student nomination 2012.
- Each Student-A Person Award**, College ANR, student nomination 2012.

Outstanding Achievement Award, Research/Academia. 2010. Society for Range Management.

Society for Range Management, Steering Committee, Rangelands Journal 2009-2015.

Society for Range Management, internationally elected, Board of Directors, 2006-2009.

UW Graduate School: Advisor, Outstanding Dissertation Award 2007.

University of Wyoming College of Agriculture. Toot Your Horn Teaching Award. 2003.

UW Range Club: Outstanding Advisor, 1998; Outstanding Faculty, 1997.

Texas Association of Environmental Professionals: Scholarship 1994.

Memberships: Society for Range Management, Ecological Society of America, American Society of Mining and Reclamation, Society for Ecological Restoration, Phi Kappa Phi Academic Honor Society, American Association of University Women, Association for Women in Science. Founding member, Wild Women of Range.

TEACHING AND ADVISING

Undergraduate Courses Taught at UW

REWM 4800 Range Utilization and Grazing Management; 3 cr. Writing intensive.

REWM 4810 Experiences in Range Utilization; 3 cr.

REWM 4900 Rangeland Management Planning; 3 cr. WC. New, 2001.

REWM 4830 Ecological Applications; 3 cr. New in fall 2011, Writing intensive.

Graduate Courses Taught at UW

REWM 5520 Ecology and Management of Grasslands; 3 cr.

RNEW 4540/5540 Shrubland Ecology; 3 cr.

REWM 5000 Rangeland Resource Management; 3 cr. writing intensive.

RNEW 4510/5510 Research Planning in Renewable Resources; 3 cr., writing intensive.

RNEW 5545/4845-13 Shrubland Ecology Field trip; 2 cr.; regional field experience.

RNEW Research Across Disciplines (RAD) Seminar; 1 cr. New departmental seminar in 2004.

Other Teaching

University of Wyoming: Invited lectures and panel discussions

ECOL 5550, RAD Seminars, Botany Seminar.

REWM 5960 Thesis hours & REWM 5980 Dissertation hours.

REWM 5900 Teaching practicum.

Seminar on Teaching Higher Level Thinking Skills. 1999.

Faculty Mentor: McNair Scholars Program, 1997, 1998.

Faculty Mentor: EPSCoR Undergraduate Research Program: 1999.

Faculty Mentor: Minority Student Leadership Initiative Program: 2000.

Texas Tech University; Dept. Range and Wildlife; Dept. Horticulture & Entomology:

Range Plant Identification; Ecology & Conservation of Natural Resources;

Range/Forest/Wetland Plants; Principles of Horticulture; Woody Plant Identification

Cities of Canyon and Amarillo, Texas: Arboriculture Training Workshops

University of Iowa, Science Education Summer Science Training Program, six-week field tour for gifted high school seniors.

Training in Natural Resource Education

National Environmental Policy Act, Environmental Training & Consulting Intl., Denver, 2001.

Western Regional Teaching Symposium; Laramie Wyoming, 1999; Coeur d'Alene, Idaho, 1998.

Teaching Colloquia; Center for Teaching Excellence, Fall 1996, 1997.

UNDERGRADUATE STUDENTS

Training undergraduates in research: I advise undergraduate students in research including lab and field projects, EpSCoR, McNair Scholars, and NASA projects. In 2008, I hosted two undergraduate students- Edgar Ruiz and Francisco Bonfil from Tecnológico de Monterrey Campus Querétaro, Mexico who presented their UW research in Saltillo, Mexico in 2009.

GRADUATE STUDENTS

Current

Upjohn, Rebecca. PhD. Program in Ecology. Dissertation: Nutrient cycles within Russian Olive removal sites and beneath shrubland restoration plantings.

Gunther, Kristen. PhD. Program in Ecology. Dissertation: Bridging the gap: writing emerging science to engage rangeland managers.

Afratahkti-Zabihi, Khodabakhsh. PhD. Rangeland Ecology and Watershed Management. Co-Chair Dr. G.B. Paige. Dissertation: Scale considerations in monitoring vegetation structure of greater sage-grouse nesting habitat in western Wyoming.

Completed

Prasser, Nicholas. MS. Rangeland Ecology and Management. Thesis: Reclamation of halogeton-invaded well pads in the Wyoming Basin. May, 2015.

Wuenschel, Amarina. M.S. Rangeland Ecology and Watershed Management. Co-Chair Dr. G.B. Paige. Thesis: Micro-patterns in vegetation structure at greater sage-grouse nest sites. August. 2013. **Selected National Presidential Management Fellow** (one of 100 selected nationally in 2013.)

Taylor, Megan. M.S. Rangeland Ecology and Watershed Management. Chair. Thesis: Exotic, native and seeded species and soil biotic community response to post-fire seedings in northern Utah. May 2013. **Outstanding graduate student paper award, SRM national meeting 2012.**

Sebade, Brian. M.S. Rangeland Ecology and Watershed Management. Dec. 2010. Chair. Thesis: *Sporobolus airoides* population resistance and resilience in competition with two exotic perennial herbs. Brian is currently the Northeast Wyoming Assistant Extension Educator.

Shaffer, Gretchen. M.S. Rangeland Ecology and Watershed Management. May 2011. Co-Chair Dr. G.B. Paige. Thesis: Formatting vegetation datasets for display and analysis. (Plan B) Currently in Science Education Program.

Williams, Mary I. Ph.D. Rangeland Ecology and Watershed Management. Recipient of Graduate School Women and Minority Fellowship. Aug. 2009. Co-Chair, Dr. G.B. Paige. Currently in Post-doctoral position, USFS, Moscow, ID.

Bergum, Karin. M.S., Rangeland Ecology and Watershed Management. Genetic variation and phenotypic traits of *Sporobolus airoides* from exotic-invaded and non-invaded areas after two generations of seed increase. Dec. 2009. Chair.

Church, Matthew. M.S., Rangeland Ecology and Watershed Management. Vegetation management in a greasewood-dominated floodplain of the Green River, Colorado. Dec 2009. Co-Chair, with Dr. G.B. Paige. Currently a private consultant.

- Bartlett, Franklin.** M.S., Rangeland Ecology and Watershed Management. Selection of alkalai saccaton genotypes as competitors with Russian knapweed and Canada thistle. May. 2009. Chair. Currently US Bureau of Land Management, Wyoming.
- Mealor, Rachel D. (Shorma)** M.S. August 2007. Exurban landowners in Wyoming. University of Wyoming, Laramie. Co-Chair, with Dr. P. Meiman. Currently Rangeland Extension Specialist, University of Wyoming.
- Ferrero-Serrano, Angel.** M.S. August 2006. Use of native grass species and a stem boring weevil for control of Canada thistle. University of Wyoming, Laramie. Proceeded to doctoral program, Population and Evolutionary Biology, University of Liverpool, Liverpool, UK. Currently Postdoctoral Research Assistant, Penn State University.
- Mealor, Brian A.** Ph.D. August 2006. Native plant population resilience to exotic invasion. Dissertation. University of Wyoming, Laramie. * **UW Graduate School 2007 Outstanding Dissertation Award**; UW Graduate School Symposium, Best Paper Presentation 2004 and 2006; UW Range Club Outstanding Graduate Student 2005; Society for Range Management Doctoral Poster Award, UW Plummer Scholarship Recipient, Proceeded to Director of Stewardship, The Nature Conservancy, WY. Currently Faculty, Department of Plant Sciences, University of Wyoming.
- Madden, Sally.** M.S. May 2005. Changes in soil physical properties and vegetation following long-term grazing removal in Wyoming sagebrush steppe. University of Wyoming, Laramie. Currently Environmental Advisor - Native Vegetation, Government Relations & Approvals, Perth, Western Australia.
- Tyrer, Sarah.** M.S. December 2005. Germination and establishment of four native species establishment in soils from Russian knapweed invasions. University of Wyoming, Laramie. Currently Vegetation Environmental Technician, Idaho Power, Boise, ID.
- Mealor, Brian A.** M.S. May 2003. Intraspecific variation in four native grasses exposed to long-term invasions of Russian knapweed (*Centaurea repens*) and hoary cress (*Cardaria draba*). University of Wyoming, Laramie. UW Gamma Sigma Delta Outstanding MS student. Current employment, see above.
- Burgess, Leah M.** M.S. May 2003. Impacts of mowing, burning, and climate on germination and seedling recruitment of Colorado butterfly plant (*Gaura neomexicana* ssp. *coloradensis*). University of Wyoming, Laramie. Currently, Wy Stockgrowers.
- Muscha, Jennifer M. (Boyle).** M.S. August 2003. Impacts of grazing removal on vegetation, soils, and biological soil crusts in Wyoming sagebrush steppe. University of Wyoming, Laramie. Currently Range Research Scientist, USDA-ARS Fort Keogh Livestock and Range Research Lab, Miles City, MT.
- Ladenburger, Courtney G.** M.S. August 2003. Relationship of saltcedar (*Tamarix ramosissima*) stand structure and age to soil conditions in the Big Horn Basin, Wyoming. University of Wyoming, Laramie. Currently self employed, Casper, WY.
- Votaw, James S.** Ph.D. May 2002. Ecology and control of saltcedar and associated Russian knapweed in the Bighorn River Basin, Wyoming. University of Wyoming, Laramie. Currently private consultant, Cody, WY.
- Gillham, John H.** M.S. May 2001. An invasive species inventory and weed susceptibility prediction model for southwestern Wyoming. University of Wyoming, Laramie. Recipient of NASA EPSCoR and McNair Scholars Program fellowships. And Society for Range

Management Outstanding Young Professional Award. Currently Researcher, Remote Sensing Applications Center, USDA Forest Service, Salt Lake City, UT.

Conley, Will C. M.S. May 2000. Characterization of unentrenched stream channels with applications for natural resource monitoring. University of Wyoming. Laramie. Currently Fisheries Biologist, Yakima-Klickitat Tribe, Yakima, WA.

Fortier, Mary I. (Williams) M.S. Dec. 2000. Wyoming big sagebrush establishment on mined lands: seeding rates and grass competition. University of Wyoming. Laramie. UW Plummer Scholarship Recipient 2000, invited speaker College of Agriculture Dean's Appreciation Dinner 2000, invited speaker, UW McNair Scholars Program workshop 1999. UW Women and Minority Fellowship recipient. See Mary Williams, above.

Rose, Kristi M.S. May 1999. Sustainable control of Dalmatian *Toadflax* (*Linaria genistifolia* spp. *dalmatica*), Musk Thistle (*Carduus nutans*), and Downy brome (*Bromus tectorum*) using cool-season perennial grass competition. University of Wyoming. Laramie. Currently USDA-NRCS WY.

Maier, Aaron M.S. Dec. 1999. Climatic influences on big sagebrush recruitment and survival. University of Wyoming. Laramie. Currently an Environmental Scientist, North Wind, Laramie, WY.

Munk, Linda M.S. Dec. 1999. Colorado butterfly plant (*Gaura neomexicana* ssp. *coloradensis*) regeneration with removal of Canada thistle (*Cirsium arvense*) or native herbs. University of Wyoming. Laramie. Currently Seed Biologist, Colorado Seed Growers, Fort Collins, CO.

Other Graduate committees

I have served on many graduate committees in Rangeland Ecology and Watershed Management, Soils, Plant Science, Botany, Zoology & Physiology, and Geography.

Post-doctoral research scientists

Williams, M. I. June, 2010- Dec. 2011. Baseline vegetation inventory of habitat for Gunnison Sage Grouse in the Gunnison Valley, in collaboration with Colorado Division of Wildlife.

Mealor, B.A. One semester post-doctoral assistant in 2006. Primary responsibility was publication of dissertation and rush skeletonweed research with US Forest Service.

Kinter, C.L. Two years post-doctoral assistant in Boise, Idaho. Conducted field experiments on rush skeletonweed in collaboration with Dr. Nancy Shaw, US Forest Service.

PROFESSIONAL SERVICE

National and International Activities

Shrub Research Consortium Executive Committee, Univ. of Wyoming Rep. 2001-2013.

National Review Panels, NSF, USDA-Rangeland CEAP, and USDA-NIFA Rangeland Research program.

Society for Range Management, Accreditation Committee. 2009-2012. Presidential appointment. Service on visitation team for Univ. of Arizona Reaccreditation.

Rangelands, Steering Committee. Non-technical, reviewed publication of the Society for Range Management. 2010 – 2015.

Society for Range Management, Board of Directors. 2006-2009. Elected position.

Colorado Department of Natural Resources. 2006. Honorarium. Habitat conservation planning for Greater and Gunnison's sage-grouse in the Wyoming Basin floristic province.
WCC21, Western Coordinating Committee on Revegetation and Stabilization of Deteriorated and Altered Lands(WERA-21). June 27-29, 2005. UW team member.
US Fish & Wildlife Service. Nov. 3-5, 2004. Invited panel member to assess extinction risk for the greater sage-grouse.

Society for Range Management:

Rangelands Steering committee 2009- present.
Guest Associate Editor, Rangelands sponsored issue on grazing 2012.
Board of Directors. Internationally elected, 3 year term, 2006-2009.
Professional Affairs, Accreditation, and Remote Sensing/GIS Committees.
Invited Moderator, Annual Meetings. 1998-2000.
Judge, Graduate Student Speaking contest. 2002-present.

Glossary Update Task Group. 1996. SRM presidential appointment to update the SRM publication: Glossary of Terms Used in Range Management, 4th ed., February 1998.

US Bureau of Land Management; Sagebrush Steppe Ecosystems. June 21-25, 1999. Invited participant. Identifying Issues and Seeking Practical Solutions. Snake River Birds of Prey National Conservation Area Workshop. Boise, Idaho. One of 30 nationally selected participants in the planning workshop.

Association for Women in Science, University of Wyoming Chapter. 1999. Faculty advisor for newly re-organized Wyoming Chapter.

American Association of State Colleges and Universities. September 5-7, 1997. Grant Writing Workshop. Kansas City, Missouri.

Anonymous Peer-Reviewer. 1995 to present. Journal of Range Management, Rangelands, Rangeland Ecology and Management, Arid Land Research and Management, Restoration Ecology, Ecological Restoration, Southwestern Naturalist, and Journal of Arid Environments, BMC Plant Biology. I review approximately 8 papers annually.

State of Wyoming Activities

Wyoming Chapter, Society for Range Management: Annual meetings. 1996-2007.
Wheatland High School Silvicultural Forum, April, 2001.
Range Management Workshop, Casper Community College: 1997-2000.
Wyoming Statewide Cooperative Extension, 1996, meetings in Laramie.

University of Wyoming Activities

UW Tenure and Promotion Committee Replacement (KJ Reddy sabbatical). 2014.
UW Graduate Council, College of Agriculture Representative. 2006-2009, 2013-2014.
Faculty Mentor, ReNU, Graduate Student Organization. 2013-present.
UW College of Agriculture & Natural Resources. Reviewer, Agricultural Experiment Station Competitive Grants. Several years since 1999.
UW University Tenure & Promotion Committee, 2009-2011.
UW College of Agriculture & Natural Resources. Academic Dishonesty Hearing Panel 2011.
RNEW Representative, UW Graduate Council 2007 to 2009.
Ellbogen 2006. Outstanding Teaching Assistant Awards Committee.
RNEW Search Committee, Restoration Ecologist. 2007-2009.
Plant Science Search Committee, Chair, Invasive Species Extension Specialist, 2007-2008.
College of Agriculture: FY 2008, 2010. AES Competitive Grants Program, Reviewer.

RNEW Chair, REWM Curriculum Committee. 2006-2007.
RNEW Representative, Biology 2023 Curriculum Committee. 2007.
RNEW 2006 Faculty search committee, Wildlife Habitat Restoration Ecologist position.
UW Representative to WCC21 National Committee. 2005-present.
UW Program in Ecology, Seminar Committee. 2006-2008.
UW Environment and Natural Resources Faculty Advisory Committee. 2005-present.
College of Agriculture: 2005. Outstanding Alumni Selection Committee.
UW Program in Ecology Faculty: 2004-present.
College of Agriculture: 2004-05. Faculty Advisory Committee for SAREC.
Plant Sciences 2000 Faculty Search Committee, Rangeland Extension Specialist.
Colleges of Agriculture, Arts & Science: Fall 2001-03. Ad Hoc Biology Curriculum Committee.
Renewable Resources 2001 Faculty search committee, Spatial Processes Ecologist position.
Gamma Sigma Delta Honor Society Scholarships Committee: 2001.
Committee on Committees: Appointed Spring 1998, reappointed 2000-2003.
UW Life Sciences Committee: Fall 1999-May 2001.
College of Agriculture: Spring 2001. Gamma Sigma Delta Student Awards.
College of Agriculture: 1999. Western Regional Teaching Symposium Comm.
College of Agriculture: 1998. Associate Dean, Academic Affairs Committee.
College of Agriculture: 1998-present. Greenhouse Committee.
Department of Renewable Resources: 1997-1998. Student Issues Committee.
Frederick Clements Scholarship in Ecology Committee: 1997-2001.

PUBLICATIONS

Invited Papers

(students in bold, undergraduates with *)

- Miller, R.F., S.T. Knick, D.A. Pyke, C.W. Meinke, S.E. Saner, M.J. Wisdom, and A.L. Hild. 2011. Characteristics of sagebrush habitats and limitations to long-term conservation. Book. Ch.10, In: Knick, S. and J. Connelly. Studies in Avian Biology, No. 38: Greater Sage-Grouse: Ecology and Conservation of a Landscape Species and its Habitats. Univ. of Calif. Press, Berkeley, CA.
- Czech, B., R. Heitschmidt, J. Brown and A. L. Hild. 2008. Sustainable Rangeland Management, Economic Growth, and a Cautious Role for the SRM. Rangelands 30 (6): 33-37.
- Brewer, M. J., T. Noma, N. C. Elliott, A. N. Kravchenko, and A. L. Hild. 2008. A landscape view of cereal aphid parasitoid dynamics reveals sensitivity to farm- and region-scale vegetation structure. European Journal of Entomology. 105: 503-511.
- Ferrero-Serrano, A.**, T.R. Collier, **B.A. Meador**, T. Smith and A.L. Hild. 2006. Combination of stem-boring weevil and native grasses reduces root biomass of Canada thistle in greenhouse experiment. Ecological Restoration 24 (3):201-202.
- Hild, A.L. 2004. Ranching west of the 100th meridian: Culture, ecology, and economics. R. L. Knight, W. C. Gilgert, and E. Marston, eds. 2002. Book review. Great Plains Research 14 (1):153.
- Hild, A.L. 1999. Breaking down our glass walls. Association for Women in Science Magazine 28 (1):23.
- Hild, A.L. 1999. Field Research: A world of opportunities and challenges. Association for Women in Science Magazine 28 (2):10-14.

Hild, A.L. 1998. Book Review: North American Range Plants (5th ed). Plant Ecology (formerly Vegetatio) 136:249.

Peer-reviewed

(students in bold)

- Prasser, N. P.** and A. L. Hild. 20?? Competitive interactions between and exotic annual, *Halogeton glomeratus* and ten North American native species. Native Plants Journal. In revision. Submitted Nov. 2014. Resubmitted May 2015.
- Wuenschel, A.,** A. Hild, G. Paige and M. Holloran. 20?? Greater sage-grouse habitat with ecological sites. Submitted Nov 2014. In revision Feb. 2015.
- Taylor, M. M.,** A. L. Hild, N. Shaw, U. Norton and T. R. Collier. 2014 Exotic production and soil microbial presence in restoration seedings following wildfire in sagebrush ecosystems. Restor Ecol 22 (5): 598-607; doi: 10.1111/rec.12112
- Barnes, M. and A. Hild. 2013. Strategic grazing management for complex creative systems. Rangelands 35(5): 3-5.
- Sebade, B.,** Ann L. Hild and B. A. Meador. 2012. Native grasses collected from invasions demonstrate invasion resistance. Ecological Restoration 30(3):209-217.
- Meador, R. D.,** P. J. Meiman, A. L. Hild, D. T. Taylor and J. S. Jones. 2011. New rangeland residents in Wyoming: A survey of exurban landowners. Rangeland Ecology and Management 64(5): 479-487.
- Williams, M.,** T. Thurow, G. Paige, A. Hild and K. G. Gerow. 2011. Sagebrush-obligate passerine response to ecological site characteristics. Natural Resources and Environmental Issues: 16: Article 10. online at <http://digitalcommons.usu.edu/nrei/vol16/iss1/10>
- Williams, M.,** G. Paige, T. Thurow, A. L. Hild and K. G. Gerow. 2011. Songbird relationships to site characteristics in shrub-steppe ecological sites. Rangeland Ecology and Management 64(2): 109-118.
- Bergum, K.,** A. L. Hild and B. A. Meador. 2010. Phenotypic traits of *Sporobolus airoides* from invaded and non-invaded sites after two generations of greenhouse seed increase. Restoration Ecology 20(2):227-233. First published online Dec 2010: doi 10.1111/j.1526-100X.2010.00754.x
- Ferrero-Serrano, A. L.** Hild and B. A Meador. 2011. Can invasive species enhance competitive ability and restoration potential in native grass populations? Restoration Ecology 19(4):545-551. Published online Nov. 2009.
- Ferrero-Serrano, A.,** T.R. Collier, A. L. Hild, **B.A. Meador,** and T. Smith. 2008. Combined impacts of native grass competition and introduced weevil herbivory on Canada thistle (*Cirsium arvense*). Rangeland Ecology and Management 61(5): 529-534.
- Tyrer, S.,** A.L. Hild, **B.A. Meador** and L. Munn. 2007. Properties of soils from Russian knapweed (*Acroptilon repens*) invasions and associated impacts on establishment of native species. Rangeland Ecology and Management 60(6):604-612.
- Meador, B.A.,** and A.L. Hild, 2007. Post-invasion evolution of native plant populations: a test of biological resilience. Oikos 116 (9):1493-1500.
- Kinter, C.L., B.A. Meador,** N. L. Shaw and A.L Hild. 2007. Post-fire invasion potential of Rush Skeletonweed (*Chondrilla juncea*). Rangeland Ecology and Management 60 (4):386-394.
- Meador, B.A.,** and A.L. Hild. 2006. Potential selection of native grass populations by exotic invasion. Molecular Ecology 15 (8):2291-2300.

- Hild, A., G. Schuman, L. Vicklund, and **M. Williams**. 2006. Canopy growth and density of Wyoming big sagebrush sown with cool-season perennial grasses. *Arid Land Research and Management* 20 (3):183-194.
- Ladenburger, C.**, A.L. Hild, D.J. Kazmer and L.C. Munn. 2006. Soil salinity patterns in *Tamarix* invasions in the Bighorn Basin, Wyoming USA. *Journal of Arid Environments* 65 (1):111-128.
- Muscha, J.**, and A.L. Hild. 2006. Biological soil crusts in grazed and ungrazed Wyoming sagebrush steppe. *Journal of Arid Environments* 67:195-207.
- Burgess, L.M.**, A.L. Hild and N.L. Shaw. 2005. Capsule treatments to enhance seedling emergence of *Gaura neomexicana* ssp. *coloradensis*. *Restoration Ecology* 13 (1):8-14.
- Gillham, J.H.**, A.L. Hild, **J.H. Johnson**, E.R. Hunt and T.D. Whitson. 2004. Weed invasion susceptibility prediction (WISP) model for use with geographic information systems. *Arid Land Research and Management* 18 (1):1-12.
- Mealor, B.A.**, A.L. Hild and N.L. Shaw. 2004. Native plant community composition and genetic diversity associated with long-term weed invasions. *Western N. Amer. Nat.* 64 (4): 503-513.
- Munk, L.**, A.L. Hild, and T. Whitson. 2002. Rosette recruitment of a rare endemic forb (*Gaura neomexicana* subsp. *coloradensis*) with canopy removal of associated species. *Restoration Ecology* 10 (1):122-128.
- Williams, M.I.**, G.E. Schuman, A.L. Hild, and L.E. Vicklund. 2002. Wyoming big sagebrush density: Effects of seeding rates and grass competition. *Restoration Ecology* 10 (2):385-391.
- Hild, A.L., M.G. Karl, M.R. Haferkamp, and R.K. Heitschmidt. 2001. Drought and Grazing III: Root dynamics and germinable seedbank. *Journal of Range Management* 54 (3):292-298.
- Perryman, B.L., **A.M. Maier**, A.L. Hild, and R.A. Olson. 2001. Demographic characteristics of 3 *Artemisia tridentata* Nutt. subspecies. *Journal of Range Management* 54 (2):166-170.
- Maier, A.M.**, B.L. Perryman, R.A. Olson, and A.L. Hild. 2001. Climatic influences on recruitment of 3 subspecies of *Artemisia tridentata*. *Journal of Range Management* 54 (6):699-703.
- Rose, K.**, A.L. Hild, T. Whitson, D. Koch, and L. VanTassell. 2001. Competitive effects of cool-season grasses on re-establishment of three weed species. *Weed Technology* 15:885-891.
- Heitschmidt, R.K., M.R. Haferkamp, M.G. Karl, and A.L. Hild. 1999. Drought and Grazing: I. Effects on quantity of forage produced. *Journal of Range Management* 52 (5):440-446.
- Hild, A.L. and D.B. Wester. 1998. Methods alter interpretation of treatment impacts on winterfat shrublands. *Journal of Range Management* 51 (2):173-178.
- Hild, A.L. and D.L. Morgan. 1993. Mulch effects on crown growth of five southwestern shrub species. *Journal of Environmental Horticulture* 11 (1):41-43.
- Hild, A.L., E.B. Fish, and D.L. Morgan. 1990. Digital image processing for non-destructive measures of woody shrubs. *HortScience* 25 (9):1064.

Books and stand-alone publications

(students in bold)

- Hild, A.L., N.L. Shaw, S.E. Meyer, D.T. Booth, E.D. McArthur, (Editors). 2004. Seed and Soil Dynamics in Shrubland Ecosystems; proceedings; 2002 August 12-16; Laramie, WY. Proc. RMRS-P-31. Ogden, UT; U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 216 p. avail. online: http://www.fs.fed.us/rm/pubs/rmrs_p031.html.
- Gillham, J., J. Johnson**, J. Hammerlink, T. Whitson, R. Hunt and A.L. Hild. 2001. Weed Invasion Susceptibility Prediction (WISP) Modeler. Alpha version 1.0. Released for

distribution in summer 2001. Department of Renewable Resources, Spatial Data Visualization Center and Cooperative Extension Service, University of Wyoming. User Manual and Compact Disc.

Hild, A.L. 1995. Winterfat-blue grama community ecotones under defoliation and removal of domestic herbivory. Ph.D. Dissertation. Texas Tech University, Lubbock.

Hild, A.L. 1991. Effects of mulch on the establishment of five Southwestern shrub species. M.S. Thesis. Texas Tech University, Lubbock.

Published Proceedings

(students in bold, undergraduates with *)

Gunther, K. and A. Hild. 2015. Presenting Rangeland Science to Natural Resource Stakeholders. Society for Range Management International Annual Meeting. 1-6 Feb. 2015. Sacramento, CA.

Prasser, N. and A. Hild. 2013. Competitive natives for restoration of natural gas well pads invaded by exotic *Halogeton glomeratus* in Wyoming. Society for Ecological Restoration World Conference on Ecological Restoration, 7-10 Oct. 2013. Madison, Wisconsin, USA.

Shaw, N., R. Cox, A. Hild and **M. Taylor**. 2012. Native plant seedlings as a tool for post-fire restoration of sagebrush system. Fifth International Fire Ecology and Management Congress: Uniting Research, Education and Management. 307 Dec. 2012. Association for Fire Ecology, Portland Oregon, USA.

Taylor, Megan M., A. L. Hild, N. L. Shaw and E. K. Denney. 2011. Establishment of invasive species following post-fire rehabilitation seeding. Society for Range Management, Feb. 6-10, 2011. Billings, MT.

Sebade, Brian, A. L. Hild, B.A. Meador and T. Smith. 2011. Resilience of native grasses from invaded and non-invaded sites transplanted into weed invasions. Society for Range Management, Feb. 6-10, 2011. Billings, MT.

Holloran, M., A. Hild, and G. Paige. 2010. Impact of energy development on greater sage-grouse habitats in Wyoming. Energy Production-Infrastructure and Development Symposium. Society for Range Management Annual Meeting Feb. 7-11, 2010. Denver, Co.

Williams, M., G. Paige and A. Hild. 2010. Spatial relationships in shrub steppe habitat: refining how we quantify structure. Society for Range Management Annual Meeting Feb. 7-11, 2010. Denver, Co.

Sebade, Brian, A. L. Hild, B.A. Meador and T. Smith. 2010 Resilience of native grasses from invaded and non-invaded sites transplanted into weed invasions. Society for Range Management Annual Meeting Feb. 7-11, 2010. Denver, Co.

Hild, A.L., N.L. Shaw, G.B. Paige and **M.I. Williams**. 2009. Integrated reclamation: approaching ecological function? In: American Society of Mining and Reclamation, Revitalizing the Environment: Proven Solutions and Innovative Approaches. 2009 National Meeting May 30-June 5, 2009. R.I. Barnhisel (ed.). ASMR.

Shaw, N.L., A.L. Hild, and L. Kinter. 2008. *Chondrilla juncea* L.: Post-fire Invasiveness in the Shrub Steppe of Western North America. Proceedings: Joint Meeting, International Grassland Congress and International Rangeland Congress. 29 June - 5 July, 2008. Hohhot, China.

Hild, A.L., **J.M. Muscha**, and N.L. Shaw. 2008. Emergence and growth of four winterfat accessions in the presence of the exotic annual cheatgrass. pp. 147-152 In: Sosebee, R.E.; Wester, D.B.; Britton, C.M.; McArthur, E. Durant; S. Kitchens, comp. 2007. Shrubland Dynamics-Fire and Water: proceedings. 2004 August 10-12; Lubbock, TX. Proceedings

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- Vicklund, L.E., G.E. Schuman and A.L. Hild. 2004. Influence of sagebrush and grass seeding rates on sagebrush density and plant size. pp. 40-43. In: Hild, A.L., N.L. Shaw, S.E. Meyer, D.T. Booth, E.D. McArthur, comp. Seed and Soil Dynamics in Shrubland Ecosystems; proceedings; 2002 August 12-16; Laramie, WY. Proc. RMRS-P-31. Ogden, UT; U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.
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- Fortier, M.I.,** G.E. Schuman, A.L. Hild, and L.E. Vicklund. 2000. Effects of seeding rates and competition on sagebrush establishment on mined lands. In: Proceedings. 2000 Billings Land Reclamation Symposium: Striving for Restoration, Fostering Technology and Policy for Reestablishing Ecological Function. March 20-24, 2000. Billings, Montana. Reclamation Research Publication No. 00-01, Montana State University, Bozeman.
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- Conley, W.C.,** A.L. Hild, T.A. Wesche, and R.N. Schmal. 1999. Riparian vegetation, soils, and hydrologic monitoring variables of low gradient stream types on the Shoshone National Forest. In: D. Olsen and J. Potyondy (eds.). Proceedings. Wildland Hydrology Conference, Bozeman, Montana June 30-July 2, 1999. American Water Resources Association., Herndon, Virginia. TPS-99-3, 536 pp.
- Hild, A.L., **B. Christensen*** and **A. Maier.** 1999. Wyoming big sagebrush seedling growth and maternal plant stand position. pp. 287-289. In: McArthur, E. Durant; Ostler, W. Kent; Wambolt, Carl. L., (comp). 1999. Proceedings. Shrubland Ecotones. 1998. August 12-14; Ephraim, UT. Proc. RMRS-P-11. Ogden Utah. USDA, Forest Service Rocky Mountain Research Station.

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Popular Press Articles and Factsheets & Articles Featuring Our Research

(students in bold)

- Guenther, K.,** and A. Hild. 2013. Bringing science out of the lab: are you a citizen scientist? P. 27-29. Reflections 2013. University of Wyoming College of Agriculture and Natural Resources Research Report.
- Levy, S. 2011. Living With Aliens. OnEarth Mag. Fall. <http://www.onearth.org/article/living-with-aliens>.
- Ellers, J. 2010. Evolutionary processes in community ecology. Ch. 11. In: Verhoef, H.A. and P.J. Morin, eds. Community Ecology, Processes Models, and Applications. Oxford Univ. Press. Textbook chapter discussion of our research specifically.
- Shaw, N. L. and A. L. Hild. 2007. Grassland, shrubland and desert ecosystems program, Boise, ID. Rush skeletonweed (*Chondrilla juncea* L.) on Idaho's Snake River Plain. USDA Forest Service, Rocky Mountain Research Station. Technology Transfer Fact Sheet: http://www.fs.fed.us/rm/boise/research/shrub/projects/shaw_rust_tech_transfer110107.pdf
- Hild, A. L. 2007. Universal Outreach: Describing SRM Visions of Land Management. Rangeland News. Society for Range Management. August 2007.
- Hild, A.L. 2006. Right Directions, Wrong Universe. Rangeland News. Society for Range Management. Nov. 2006.
- Tyrer, S., B. Mealor** and A.L. Hild. 2006. Alternative methods for controlling Russian knapweed. Reflections 16: University of Wyoming College of Agriculture. Laramie.
- Freeman, D., A. Ferraro-Serrano,** A.L. Hild, T. Collier, and S. Miller. 2006. Bio-control and spatial technology in the fight against weeds. Reflections 16: University of Wyoming College of Agriculture. Laramie.
- Madden, S.,** L. Munn, A.L. Hild, P. Stahl and E. Pendall. 2005. Long-term grazing removal alters soil properties. Reflections 15:42-43. University of Wyoming College of Agriculture. Laramie.
- Hamende, V., **B. Mealor,** and A.L. Hild. 2003. UW research shows native plants compete with exotic weed invasions. Reflections 13: 40-41. University of Wyoming College of Agriculture. Laramie. (Highlights research of our lab).
- Hamende, V. 2003. Beyond the classroom: blending academics with real-life experiences. Ag. News. 12(2):14-15. University of Wyoming College of Agriculture. Laramie. (Highlights my field trips for REWM 5000 and RNEW 5540).
- Burgess, L.** and A.L. Hild. 2002. New hope for threatened species. Reflections 12:10. University of Wyoming College of Agriculture. Laramie.
- Boyle, J.,** A.L. Hild, L. Munn, P. Stahl, and M. Christensen. 2002. Impacts of grazing removal from Wyoming sagebrush communities. Reflections 12:21-23. University of Wyoming College of Agriculture. Laramie.
- Gillham, J.,** A.L. Hild and T. Whitson. 2001. GIS technology fights noxious weeds in the West. Reflections 11:36-37. University of Wyoming College of Agriculture. Laramie.

- Whitson, T., A.L. Hild, **S. Votaw, and S.P. Alger. 2000.** New technology battles noxious weeds and resprouting brush. Reflections. 10:24-26. University of Wyoming College of Agriculture. Laramie.
- Kinter, C.L.,** A.L. Hild, T.D. Whitson, **S. Alger and K. Rose. 1998.** Relicts of the past: A vanishing resource. Reflections. 8:18-21. University of Wyoming, College of Agriculture, Laramie.

Invited Professional Presentations

- Hild, A.L. and A. Carlisle. 2014. Saturday University Ucross-Pollination Experiment: At the root of Balance. June 23, 2014. Ucross, Wyoming. Video-taped outreach presentation published by the University of Wyoming Outreach School, Saturday U. Available on YouTube. <https://www.youtube.com/watch?v=u72f62YZ2Qg> and <https://www.youtube.com/watch?v=TY02ZTiM5w>
- Hild, A.L. and B. A. Meador. 2013. Evolution of native species in invaded sites and implications for restoration seed source development. Symposium: Using native winners to improve restoration success. National Native Seed Conference, April 8-12, 2013. Santa Fe, NM.
- Hild, A.L. 2013. Inevitable disturbance and uncertainty in natural resource management. Eastern Nevada Landscape Coalition Eighth Annual Winter Weed Meeting. Jan 16 & 17, 2013. Ely, NV.
- Hild, A.L. 2010. Resilience or Decimation: Energy and Invasives in the West. National Invasive Species Awareness Week. Jan 11-14, 2010. Washington, DC.
- Hild, A.L. 2009. Key elements of a capstone rangeland ecology management planning course. Range Science Education Council, International meeting Society for Range Management, 8-13 February, 2009. Albuquerque, NM.
- Hild, A.L. 2000. Wildland shrubs as challenges in ecology. UW Botany Seminar.
- Hild, A.L. 1998. Challenge grants. UW College of Agriculture, seminar for proposal writing.

Presentations

(students in bold, undergraduates with *)

- Prasser, N.** and A. Hild. 2013. Reclamation of halogeton invaded well pads in the Wyoming Basin. Laramie Research and Extension Center Field Days. 29, Aug. 2013. Laramie, Wy.
- Prasser, N.** and A. Hild. 2013. Competitive natives for restoration of natural gas well pads invaded by exotic Halogeton glomeratus in Wyoming. Soc. Ecol Restoration 5th World Congress. 7-10 October 2013. Madison, WI.
- Wuenschel, A. E.** A.L. Hild, G. B. Paige, and M. Holloran. 2013. Describing sage-grouse habitat across highly variable landscapes. Research Across Disciplines Seminar, University of Wyoming. November, 2013. Laramie, Wy.
- Prasser, N.** and A. Hild. 2013. Reclamation of halogeton-invaded well pads in the Wyoming Basin. Laramie Research and Extension Center Field Day. 29 August 2013. Laramie, Wy.
- Shaw N.; R. Cox, A. Hild and **M. Taylor.** 2012. Native plant seeding as a tool for post-fire restoration of sagebrush systems. Fifth International Fire Ecology and Management Congress: Uniting Research, Education and Management. 3-7 December 2012, Association for Fire Ecology, Portland, Oregon, USA.
- Wuenschel, A.E.,** A.L. Hild, G.B. Paige, M.J. Holloran. 2012. Ecological sites: another way to look at sage-grouse habitat. Ecological Society of America. Portland, Oregon. August 2012.

- Wuenschel, A.E.,** A.L. Hild, G.B. Paige. 2012. Shrub patterns among ecological sites in sage-grouse nesting habitat. Wildland Shrub Symposium. Las Cruces, New Mexico. May 2012. (Poster)
- Wuenschel, A.E.,** A.L. Hild, G.B. Paige. 2012. Understanding greater sage-grouse habitat within the context of ecological sites. Front Range Student Ecology Symposium, Fort Collins, Colorado. February 2012. (Poster)
- Wuenschel, A.E.,** G.B. Paige, A.L. Hild, M.J. Holloran, and **K. Zabih-Afratakhti.** 2012. Linking metrics of sage-grouse habitat suitability to ecological site descriptions. Society for Range Management, Spokane, Washington. February 2012.
- Zabih-Afratakhti, K.,** G.B. Paige, S.N. Miller, **A.E. Wuenschel,** M.J. Holloran. 2012. A fuzzy logic approach to analyze suitability of greater sage-grouse nesting habitat. Society for Range Management, Spokane, Washington. February 2012.
- Taylor, M.M.,** A. L. Hild, N. L. Shaw, E. K. Denney, and M. R. Fisk. 2012. Monitoring invasive species in a semi-desert sagebrush shrubland post-wildfire rehabilitation seeding. Great Basin Native Plant Selection and Increase Project Annual Meeting, Salt Lake City, UT. Feb. 2012. *Invited oral paper.*
- Taylor, M.M.,** A. L. Hild, N. L. Shaw, E. K. Denney, and M. R. Fisk. Rehabilitation seeding and soil dynamics associated with invasive species in a semi-desert sagebrush shrubland. 65th Annual Meeting of the Society for Range Management, Spokane, WA. Feb. 2012.
- Zabih-Afratakhti, K.,** G.B. Paige, S.N. Miller, **A.E. Wuenschel,** M.J. Holloran. 2011. A fuzzy logic approach to analyze suitability of greater sage-grouse nesting habitat. GIS Day, University of Wyoming, Laramie, Wyoming. November 2011. (poster)
- Taylor, M.M.,** A. L. Hild, N. L. Shaw, and E. K. Denney. 2011. Establishment of invasive species in post-fire seeding treatments. Poster presented at the 64th Annual Meeting of the Society for Range Management, Billings, MT. Feb. 2011.
- Shaw, N., R. Cox, M. Pellant, L. St. John, J. Truax, A. Ganguli and A. Hild. 2012. Equipment and strategies to enhance post-wildfire establishment of Great Basin Native plants. Society for Range Management, Jan. 30-Feb. 3, 2012. Spokane, Wa.
- Zabih-Afratakhti, K.,** G.B. Paige, S. N. Miller, A. L. Hild A.E. Wuenschel and M. Holloran. 2012. A fuzzy logic approach to analyze suitability of nesting habitat for greater sage-grouse. Society for Range Management, Jan. 30-Feb. 3, 2012. Spokane, Wa.
- Wuenschel, A.,** A. Hild, G. Paige, K. Zabih. 2012. Linking metrics of sage grouse habitat suitability to ecological site descriptions. Society for Range Management, Jan. 30-Feb. 3, 2012. Spokane, Wa.
- Taylor, M.M.,** A.L. Hild, N. L. Shaw, E.K. Denney and M. R. Fisk. 2012. Rehabilitation seeding and soil dynamics associated with invasive species in a semi-desert sagebrush shrubland. Society for Range Management, Jan. 30-Feb. 3, 2012. Spokane, Wa. **First place MS student oral presentation.**
- Taylor, Megan M.,** A. L. Hild, N. L. Shaw and E. K. Denney. 2011. Establishment of invasive species following post-fire rehabilitation seeding. Society for Range Management, Feb. 6-10, 2011. Billings, MT.
- Sebade, Brian,** A. L. Hild, B.A. Meador and T. Smith. 2011. Resilience of native grasses from invaded and non-invaded sites transplanted into weed invasions. Society for Range Management, Feb. 6-10, 2011. Billings, MT.
- Holloran, M., A. Hild, and G. Paige. 2010. Impact of energy development on greater sage-grouse habitats in Wyoming. Energy Production-Infrastructure and Development Symposium. Society for Range Management Annual Meeting Feb. 7-11, 2010. Denver, Co.

- Williams, M.,** G. Paige and A. Hild. 2010. Spatial relationships in shrub steppe habitat: refining how we quantify structure. Society for Range Management Annual Meeting Feb. 7-11, 2010. Denver, Co.
- Sebade, Brian,** A. L. Hild, B.A. Meador and T. Smith. 2010 Resilience of native grasses from invaded and non-invaded sites transplanted into weed invasions. Society for Range Management Annual Meeting Feb. 7-11, 2010. Denver, Co.
- Hild, A. L. 2009. Integrated reclamation: Approaching Ecological Function. ASSMR Meeting June 1-5, Billings MT.
- Church, M. M., M. I. Williams,** A. L. Hild and G. B. Paige. 2009. Vegetation Management in greasewood bottomlands. International meeting Society for Range Management, 8-13 February, 2009. Albuquerque, NM.
- Bergum, K. E.,** A. L. Hild and B. A. Meador. 2009. After invasion: genetic and phenotypic variation of remnant natives in greenhouse production. International meeting Society for Range Management, 8-13 February, 2009. Albuquerque, NM.
- Williams, M. I.,** G. B. Paige, A. L. Hild, T. L. Thurow, and R. Lauenroth. 2009. Relationship of ecological site plant community structure to shrubsteppe songbirds. International meeting Society for Range Management, 8-13 February, 2009. Albuquerque, NM.
- Bartlett, F. P.,** A. L. Hild, **K. E. Bergum,** B. A. Meador and T. Smith. 2009. Assessing Competitiveness of alkali sacaton genotypes exposed to invasive weeds. International meeting Society for Range Management, 8-13 February, 2009. Albuquerque, NM.
- Church, M. M.,** G.B. Paige, Ann L. Hild and M.I. Williams. 2009. Structural changes in greasewood in a riparian floodplain of the Green River following shrub manipulations. UW Graduate Student Symposium April 6-7, 2009. Laramie. Oral paper.
- Williams, M.I.,** G. B. Paige, A. L. Hild and T. L. Thurow. 2009. Relationship of vegetation structure to shrub-steppe songbirds within and among ecological sites. UW Graduate Student Symposium April 6-7, 2009. Laramie. Oral paper.
- Sebade, B.** and A. L. Hild. 2009. Resistance and resilience of native grasses competing with exotic invaders. UW Graduate Student Symposium April 6-7, 2009. Laramie. Poster.
- Bartlett, F.,** A.L. Hild, **B.A. Meador,** 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. Washington DC Dec. 2-4, 2008.
- Bartlett, F.,** A.L. Hild, **B.A. Meador,** and T. Smith. 2008. Methods to select promising native grass genotypes as competitors with introduced invasive weed species. Joint meeting; American Forage and Grassland Council and the Society for Range Management Annual Meeting Jan 26-31, 2008. Lexington, KY. Poster.
- Bergum, K.E.,** A.L. Hild, **B.A. Meador,** and T. Smith. 2008. Genetic variation within genotypes of two native grass species after two generations of greenhouse seed source improvement. Joint meeting; American Forage and Grassland Council and the Society for Range Management Annual Meeting Jan 26-31, 2008. Lexington, KY. Poster.
- Church, M., M. I. Williams,** A.L. Hild and G.B. Paige. 2008. Impacts of removal and seeding treatments on vegetative structure in greasewood and smooth brome dominated bottomlands. Joint meeting; American Forage and Grassland Council and the Society for Range Management Annual Meeting Jan 26-31, 2008. Lexington, KY. Poster.
- Shaw, N.L. and A.L. Hild. 2008. *Chondrilla juncea* demography following wildfire on the Snake River Plain. Joint meeting; American Forage and Grassland Council and the Society for Range Management Annual Meeting Jan 26-31, 2008. Lexington, KY. Poster.
- Williams, M.I.,** G.B. Paige, A.L. Hild, and T.L. Thurow. 2008. Use of ecological site indicators to describe upland passerine habitat. Joint meeting; American Forage and Grassland Council

- and the Society for Range Management Annual Meeting Jan 26-31, 2008. Lexington, KY. Paper.
- Hild, A.L., **F. Bartlett**, **K. Bergum** and T. Smith. 2007. Selecting promising native grass genotypes for competitive interactions with exotic species. Partners in Environmental Technology Technical Symposium & Workshop. December 4-6. Washington D.C. Poster.
- 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. International Phytotechnologies Conference. Proceedings of the International Phytotechnology Society meetings, 24-26 September. Denver, CO. Paper.
- 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. Sustainable Military Readiness Conference, July 30-Aug. 3, 2007. Orlando, FL. Poster.
- Williams**, **M.I.**, G.B. Paige, A. L. Hild, and T.L. Thurow. 2007. Linking ecological site indicators to upland bird density and diversity. The Wildlife Society-Society for Range Management joint meeting. Nov. 26-28, 2007. Lander, Wyoming. Paper.
- Mealor**, **R.D.**, P.J. Meiman, A.L. Hild, D.T. Taylor, and J.S. Jones. 2007. Exurban landowners in Wyoming: Who are they and what drives their land management decisions? UW Graduate Student Symposium. April 3-4, Laramie, WY. Paper.
- Hild, A.L. and T. Smith. 2007. Effectiveness of native plants as competitors with non-indigenous and invasive knapweed and thistle species (Project Number: Sustainable Infrastructure-1389). In-Progress Review Meeting, 16 May 2007. Washington D.C. Oral Report to US EPA, DoD, DoE.
- Smith, T., **B.A. Mealor**, **A. Ferrero-Serrano**, A.L. Hild and T.R. Collier. 2007. Selection of promising genotypes for restoration of military lands. SERDP-ESTCP Partners in Environmental Technology Technical Symposium & Workshop. Dec. 4-6, 2007. Washington D.C. Poster.
- Williams**, **M.I.**, G.B. Paige, T. Thurow and A.L. Hild. 2007. Linking ecological site indicators to upland passerine bird habitat. UW Graduate Student Symposium. April 3-4, Laramie, WY. Paper.
- 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. Society for Range Management 60th Annual Meeting. February 10-16, Reno/Sparks, Nevada. Paper.
- Williams**, **M.I.**, G.B. Paige, A. L. Hild, T. L. Thurow and R. Laubhan. 2007. Linking ecological site monitoring techniques to upland breeding bird habitat. Society for Range Management 60th Annual Meeting. February 10-16, Reno/Sparks, Nevada. Poster.
- Mealor**, **R.D.**, P.J. Meiman, A. L. Hild, D. T. Taylor and J. S. Jones. 2007. Exurban landowners in Wyoming: Who are they and what drives their land management decisions? Society for Range Management 60th Annual Meeting. February 10-16, Reno/Sparks, Nevada. Paper.
- Smith***, **D.**, **M. Peterson***, **L. Line*** and **M. Wolvington***. 2007. (A.L. Hild, advisor.) State and transition model of SRM: Rangeland Cup Competition Poster. Society for Range Management 60th Annual Meeting. February 10-16, Reno/Sparks, Nevada. Rangeland Cup Team. Poster.
- 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*). NatureServe Leadership Conference Proceedings. 24-26 April, Baltimore, MD. Paper.

- Shaw, N.L., A.L. Hild, J.E. Gurr, D.L. Scholten, and M.D. Scholten. 2006. Population structure and recruitment of winterfat as influenced by the presence of cheatgrass. Proc: Shrublands Under Fire: Disturbance and Recovery in a Changing World. Fourteenth Wildland Shrub Symposium 6-8 June 2006. Cedar City, Utah. Poster.
- Smith, T., **B.A. Mealor**, **A. Ferraro-Serrano**, A.L. Hild and T.R. Collier. 2006. Evaluation of selected native plant populations for competition against exotic weeds. SERDP-ESTCP Partners in Environmental Technology Technical Symposium & Workshop. Nov. 2006. Washington D.C. Poster.
- Ferrero-Serrano, A.**, A.L. Hild, **B.A. Mealor**, T.R. Collier, S.F. Enloe, and S.D. Miller. 2006. Do combined actions of a stem-boring weevil and competition from native grasses form a synergistic weed control of Canada thistle? UW Graduate Student Symposium. April 3-4, Laramie, Wyoming. Paper.
- Freeman, D.**, A.L. Hild, S. Miller, and S. Prather. 2006. A GIS-based risk assessment tool for prioritizing Canada thistle control efforts in tallgrass prairie. UW Graduate Student Symposium, April 3-4, Laramie, WY. Paper.
- Mealor, B.A.**, and A.L. Hild. 2006. Native plant population resilience to exotic invasion. UW Graduate Student Symposium. April 3-4, Laramie, Wyoming. Oral paper.
- Mealor, R.D.**, P. Meiman, A.L. Hild and D.T. Taylor. 2006. A changing range: taking a closer look at exurban landowners in Wyoming. UW Graduate Student Symposium. April 3-4, Laramie, Wyoming. Paper.
- Williams, M.I.**, G.B Paige A.L. Hild and T.L. Thurow. 2006. Spatial database and decision tool to evaluate habitat monitoring and management at Browns Park National Wildlife Refuge. UW Graduate Student Symposium. April 3-4, Laramie, Wyoming. Poster.
- Ferrero-Serrano, A.**, A.L. Hild, B. Mealor, T. Collier, S. Enloe, S. Miller, and T. Smith. 2006. Synergistic action of competitive native plants and a stem-boring weevil for control of Canada thistle. Society for Range Management International meeting, Feb. 13-17, Vancouver, B.C. Poster.
- Tyrer, S.**, A.L. Hild, L. Munn, **B. Mealor**, and S. Enloe. 2006. Soil chemical changes associated with Russian knapweed invasions. Society for Range Management International meeting, Feb. 13-17, Vancouver, B.C. Poster.
- Mealor, B.**, and A.L. Hild. 2006. There goes the neighborhood—or does it? Society for Range Management International meeting, Feb. 13-17, Vancouver, B.C. SRM National Graduate Student Competition, 2nd place. Poster.
- Kinter, C.L.**, A.L. Hild, N.L. Shaw, M.R. Fisk, J.W. Kinney, and M.D. Scholten. 2005. Recruitment of rush skeletonweed following wildfire on Idaho's Lower Snake River Plain. Society for Range Management. Feb. 5-11, Fort Worth, Texas. Poster.
- Ferrero-Serrano, A.**, A.L. Hild, T. Collier, S. Enloe and S. Miller. 2005. Synergy of competitive native plants and a stem-boring weevil (*Ceutorhynchus litura*) for control of Canada thistle (*Cirsium arvense*), and invasive weed. UW Graduate Student Symposium. April 4-5, Laramie, WY. Paper.
- Tyrer, S.J.**, A.L. Hild, L.C. Munn and S.F. Enloe. 2005. Do soils from knapweed invasions limit germination of native forbs or shrubs? UW Graduate Student Symposium. April 4-5, Laramie, WY. Paper.
- Tyrer, S.J.**, and A.L. Hild. 2005. Native forb and shrub seedling establishment in Russian knapweed (*Acroptilon repens* (L). D.C) dominated soils. Society for Range Management. Feb. 5-11, Fort Worth, Texas. Paper.

- Kinter, C.L.**, N.L. Shaw, and A.L. Hild. 2005. Seed ecology of rush skeletonweed (*Chondrilla juncea* L.) following wildfire on Idaho's Snake River Plain. Special session on Losses from the Soil Seed Bank. Weed Science Society of America. Feb. 7-10, Honolulu HI. Paper.
- Ferrero-Serrano, A.**, A.L. Hild, T. Smith, **B. Meador**, T. Collier, S. Enloe, and S. Miller. 2005. Synergistic action of competitive native plants and a stem boring weevil (*Ceutorhynchus litura*) for control of Canada thistle (*Cirsium arvense*), an invasive weed. SERDP National Research Symposium. Nov., Washington D.C. Poster.
- Madden, S.**, L. Munn, A.L. Hild, P. Stahl, and E. Pendall. 2005. Long-term effects of removal of domestic livestock grazing from Wyoming big sagebrush rangeland: vegetative diversity and soil stability. Soil Science Society of America Annual Conference. Nov. Seattle, WA. Paper.
- Kinter, C.L.**, N.L. Shaw and A.L. Hild. 2004. Assessing the invasion of rush skeletonweed (*Chondrilla juncea* L.) into steppe communities of the Snake River Plain. Science Update. US Forest Service Rocky Mtn. Research Station, Boise ID. Paper.
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- Boyle, J.**, and A.L. Hild. 2003. Cover and diversity of biological soil crusts in shrublands of Wyoming. UW Graduate Student Symposium. April 14-15, Laramie, WY. Paper.
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- Mealor, B.A.**, A.L. Hild, and N.L. Shaw. 2003. Can native plants become competitive with invasive exotics? Invasive Plants in Natural and Managed Systems Conference. Ft. Lauderdale, FL. Poster.
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- Fortier, M.**, G.E. Schuman, A.L. Hild, and L.E. Vicklund. 2001. Wyoming big sagebrush establishment on mined lands: Influence of seeding rates and competition. Society for Range Management 54th Annual Meetings. February 17-23, Kailua-Kona, Hawaii. Paper.

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- Perryman, B., **A. Maier**, A.L. Hild and R. Olson. 2001. Demographic characteristics of three *Artemisia tridentata* subspecies. Society for Range Management 54th Annual Meetings. February 17-23, Kailua-Kona, Hawaii. Paper.
- Votaw, J.S.**, A.L. Hild and T. Whitson. 2001. Control of saltcedar using the Burch wet-blade mower. Western Soc. Weed Science annual meeting. March 13-15, Coeur d'Alene, ID. Paper.
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- Gillham, J.**, A.L. Hild and T. Whitson. 2001. An invasive species inventory and weed susceptibility prediction model (WISP). Western Society of Weed Science Annual Meetings. March, Coeur d'Alene, ID. Paper.
- Johnson, J.H.**, J.D. Hammerlink and **J.H. Gillham**. 2001. An ArcView-based application for the management of noxious weed species in Wyoming. 2001 International ESRI User Conference. July, San Diego, CA. Paper.
- Mealor, B.A.**, A.L. Hild, N.L. Shaw and D. Kazmer. 2001. Do long-term weed infestations select for competitive natives? Great Basin Biological Res. Oct. 11-13, Provo, UT. Paper.
- Boyle, J.**, A.L. Hild, P. Stahl, L. Munn, and M. Christensen. 2001. Impacts of grazing removal on Wyoming sagebrush communities. Wyoming Chapter, Society for Range Management annual meetings. Nov. 8-11, Casper, WY. Paper.
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- Schuman, G.E., A.L. Hild, and L.E. Vicklund. 2001. Grass competition and sagebrush seeding rates: Seedling establishment and shrub cover. Abandoned Coal Mined Lands Thirteenth Annual Review Seminar. Dec. 5, Casper, WY. Paper.
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- Fortier, M.**, G.E. Schuman, A.L. Hild and L.E. Vicklund. 2000. Grass competition and sagebrush seedling rates: Influences on sagebrush seedling establishment. Interim progress report paper. Abandoned Coal Mine Land Research Program. Twelfth Project Review Seminar. Gillette, Wyoming. November 28, 2000. Paper.
- Fortier, M.**, G.E. Schuman, A.L. Hild and L.E. Vicklund. 2000. Sagebrush seedling establishment on mined lands. Society for Range Management, Wyoming Chapter Meetings. November 6-9, Laramie, Wyoming. Poster.
- Gillham, J.**, E.R. Hunt, T. Whitson, and A.L. Hild. 2000. Using GIS to predict rangeland susceptibility to weedy invasions. Society for Range Management, Wyoming Chapter Meetings. Nov. 6-9, Laramie, Wyoming. Poster.
- Votaw, S.**, A.L. Hild, and T. Whitson. 2000. Control of salt cedar using the Burch wet-blade mower. Society For Range Management, Wyoming Chapter Meetings. November 6-9, Laramie, Wyoming. Poster.
- Fortier, M.**, G.E. Schuman, A.L. Hild and L.E. Vicklund. 2000. Sagebrush establishment on mined lands: effects of seeding rate and grass competition. Society for Range Management 53rd Annual Meeting. February 13-18, Boise, Idaho. Poster.
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- Votaw, S.**, T. Whitson and A.L. Hild. 2000. Salt cedar ecology and control efforts using the Burch wet-blade mower. Herbicide Workshop for Professionals. Feb. 17. Paper.
- Gillham, J.**, A.L. Hild, and T. Whitson. 1999. Satellite applications on Wyoming rangelands. Wyoming Chapter, Society for Range Management. March, Thermopolis, Wyoming. Poster.
- Munk, L.**, A.L. Hild, T. Whitson and D. Kazmer. 1999. Colorado butterfly plant regeneration with removal of Canada thistle or native herbs. 5th Annual Front Range Student Ecology Symposium. March 31-April 2, Fort Collins, Colorado. Paper.
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- Perryman, B., R. Olson, A.L. Hild and **A. Maier**. 1999. Climatic control of sagebrush survival for mined land reclamation. Abandoned Coal Mine Land Research Program. Eleventh Project Review Seminar. Nov. 17, Gillette, Wyoming. Final progress report. Paper.
- Fortier, M.**, J. Schuman and A.L. Hild. 1998. Grass competition and sagebrush seeding rates: Influences on sagebrush seedling establishment. Abandoned Coal Mine Lands Research Program Tenth Review Seminar. Nov. 5, Gillette, Wyoming. Interim progress report Paper.
- Maier, A.**, B. Perryman, R. Olson, and A.L. Hild. 1998. Climatic control of sagebrush survival for mined land reclamation. Abandoned Coal Mine Lands Research Program Tenth Project Review Seminar. Nov. 5, Gillette, Wyoming. Interim progress report. Paper.
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- Gillham***, J. , E.R. Hunt, and A.L. Hild. 1998. Wyoming rangelands: biomass estimation and satellite applications. Final report to Wyoming Space Grant Consortium. Paper.
- Christensen***, B., **A. Maier**, and A.L. Hild. 1998. Wyoming big sagebrush seedling success and stand position. Tenth Wildland Shrub symposium; Shrubland ecotones. Aug. 12-14, Ephrium, Utah. Poster.
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- Kinter, C.L.**, T. Whitson, and A.L. Hild. 1998. Assessment of three Wyoming relict sites and two corresponding grazed sites indicates urgent need for documentation of other reference

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Rose, K., T. Whitson and A.L. Hild. 1998. Effects of perennial grass competition on dalmatian toadflax, musk thistle, and leafy spurge. Weed Science Society Meetings. Feb., Casper, Wyoming. Paper.

Hild, A., and **J. Gillham***. 1997. Biomass production and shrub density at Red Canyon Ranch. Wyoming Hyperspectral Imaging Pilot Project (WHIPP). Oral report to Governor's office, Cheyenne, Wyoming. Paper.

Christensen*, B., and A.L. Hild. 1997. Wyoming big sagebrush seedling success and stand position. National McNair Scholars Research Conference. August., Penn State Univ. Paper.

Maier, A., B. Perryman, A.L. Hild, and R. Olson. 1997. Climatic control of sagebrush survival for mined-land reclamation. Abandoned Mine Lands Ninth Annual Project Review. Nov. 18, Gillette, Wyoming. Interim progress report. Paper.

RESEARCH FUNDING

(Completed, and in progress)

Total funding, \$2.9 million to date.

Tri-Hydro collaborative funding. Use of soil biological control *Pseudomonas fluorescens* for restoration in annual *Bromus* spp. invaded rangelands in the Douglas core area. 2015. \$213k. pending.

USDA- AES Competitive Grant. 2014 A. Hild, J.J. Shinker and S. Bieber. Priming Science: Writing Emerging Science to Engage Resource Navigators. \$53,979.

USDA-NIFA Building a Better Capstone. 2014. S. Edinger Marshall, J. Kinzie, K Hickman, A. Hild, M. Murphy, M. Balgopal, M. Fernandez-Gimenez. USDA NIFA Institute of Family, Youth and Community, Division of Community's Higher Education Challenge Grants Program, Building a Better Capstone, Planning grant. Funded. \$16258 to Humbolt State Univ., UW portion, \$1500.

Marathon Oil Co. 2013. Russian olive control and ecology. A. Hild and T. Collier. \$10000 approved, match in review.

US BLM. 2012. Survey of biotic soil crusts on BLM lands in Wyoming. Peter Stahl, Ann Hild, Gary Beauvais and Dorothy Tuthill. \$120,000.

US Forest Service, Rocky Mountain Research Station. 2011. Impact of invasive species on post-fire rehabilitations seedings in northern Utah. A. Hild. \$15,000.

Marathon Oil Co. 2011. Soil seedbanks of halogeton glomeratus and revegetation of well pads near Wamsutter Wyoming. A Hild. \$15,000.

Colorado Division of Wildlife. 2010. Baseline vegetation inventory of habitat for Gunnison Sage Grouse in the Gunnison Basin, Colorado. A. Hild. \$167,000.

Tom Thorne Sage Grouse Conservation Fund. 2009. Quantifying sagebrush structure on Ecological Sites in the Upper Green River Basin. \$80,372. G. B. Paige, M. Holloran and A. Hild.

Margaret and Sam Kelly Ornithology Research Fund. 2009. Greater Sage Grouse nest sites on the Pinedale Anticline-developing tools to quantify vegetation. \$2,000. G. Paige, M. Holloran and A. Hild.

- State of Wyoming Sage Grouse Local Working Groups. 2008.** Structural and spatial characteristics of sage-grouse nesting and early brood-rearing habitat suitability of Wyoming Basin Ecological Sites. \$99,800. G. Paige, M. Holloran and A. Hild.
- F.E. Warren Air Force Base. 2007.** Colorado butterfly plant and Prebles jumping mouse riparian habitat at F. E. Warren AFB, Cheyenne, WY. A.L. Hild, T. Collier and G.B. Paige. \$64,796.
- US Fish & Wildlife Service. 2007.** Monitoring of grass and shrub communities in bottomlands at Browns Park National Wildlife Refuge, Co. G.B. Paige and A.L. Hild. \$99,226.
- UW AES-Special RFP for Equipment. 2006.** Modernization of the Environmental Simulation Laboratory. G.B. Paige, D. Williams, P. Stahl, A.L. Hild and T. Collier. Submitted jointly to UW Research Office Equipment Grants. \$117,410.
- US Fish & Wildlife Service. 2005.** Spatial database and decision tool to develop and evaluate habitat monitoring and management practices at Browns Park National Wildlife Refuge. A.L. Hild, G.B. Paige, and S. Anderson. \$208,521.
- National Geographic Society. 2005.** Tracing global invasions of *Chondrilla juncea* L. (rush skeletonweed, yuyo esqueleto) to their Eurasian sources. C.L. Kinter, N.L. Shaw, and A.L. Hild. \$20,000.
- USDA-Rocky Mtn. Research Station-Joint Venture Agreement. 2004.** Postfire regrowth of riparian and upland vegetation: effects of fire severity and rehabilitation treatments on the Routt National Forest. K. Dwire and A.L. Hild. Joint Venture Agreement. \$17,520; \$8,800 added in 2007.
- Great Plains Cooperative Ecosystem Study Unit. 2004.** Development of short-grass and mixed-grass conceptual models for the Southern Plains Inventory and Monitoring Network. D. Tinker and A.L. Hild. \$23,600.
- USDoD-SERPD Program. 2004.** Effectiveness of selected native plants as competitors with non-indigenous and invasive knapweed and thistle. A.L. Hild and T. Smith. \$550,000.
- U.S. Fish & Wildlife Service, Tewaikon NWR. 2003.** Floristic assessment of prescribed burning and management at Tewaikon National Wildlife Refuge. \$30,000. A.L. Hild.
- USDA-CSREES, National Research Initiative-CGP, Standard grant. 2003.** Using native grasses to compete with exotic weeds. \$230,000. A.L. Hild.
- USDA-Rocky Mtn. Research Station-Joint Venture Agreement. 2003.** Ecology of rush skeletonweed and invasibility of native plant communities on the Snake River Plain, Idaho. A.L. Hild and N. Shaw. \$64,500.
- University of Wyoming, Agricultural Experiment Station Competitive Grants Program FY-2001.** Rangeland exclosures: plant and soil diversity in semi-arid shrublands of Wyoming. A.L. Hild, P. Stahl and M. Christensen. \$57,000.
- Bureau of Land Management Cooperative Agreement. 2001.** Revision and distribution of Weed Invasion Susceptibility Prediction Model (WISP). A.L. Hild and J. Gillham. WISP model distribution. \$10,000.
- USDA-CSREES, National Research Initiative-CGP. 2000.** Paracitism in grass-dominant agroecosystems affected by landscape structure. M. Brewer, PI; A.L. Hild & N. Elliott, cooperators. \$350,000.
- USDA-CSREES; National Research Initiative-CGP. 2000.** Using exotic weedy invasions to select competitive ability in native plant species. A.L. Hild. Seed grant. \$57,000.
- Wyoming Game and Fish Cooperative Agreement. 2000.** Salt cedar ecology and control in the Big Horn River Basin, Wyoming. A.L. Hild and T. Whitson. \$10,000.

- Department of Defense-F. E. Warren Air Force Base. 2000.** Vegetation removal to enhance Colorado butterfly plant recruits. A.L. Hild. \$20,000.
- USDA-Rocky Mtn. Research Station-Joint Venture Agreement. 1999.** Recruitment of winterfat as influenced by the presence of cheatgrass. A.L. Hild. \$32,760.
- Wyoming Game and Fish Cooperative Agreement. 1999.** Salt cedar ecology and control in the Big Horn River Basin, Wyoming. A.L. Hild and T. Whitson. Cooperative effort of Wyoming Game and Fish, Washakie Co. Weed and Pest, and the Dept. of Renewable Resources. \$10,000.
- USDA-Forest Service Cooperative Agreement. 1998.** Assessing Forest Service data for riparian research needs. A. L. Hild and N. Schmaal. \$30,000.
- Bureau of Land Management Cooperative Agreement. 1998.** Floristic data and information on public lands near Rock Springs Wyoming. A.L. Hild. \$30,000.
- Department of Defense-F.E. Warren Air Force Base. 1998.** Regeneration of Colorado butterfly plant on F.E. Warren Air Force Base. A.L. Hild, T. Whitson, and D. Kazmer. \$20,000.
- Abandoned Mine Lands Research Program. 1998.** Grass competition and sagebrush seeding rates: Influence on sagebrush seedling establishment. G. Schuman, A.L. Hild, and L. Vicklund. \$75,000.
- University of Wyoming, Faculty Grants in Aid. FY 1998.** Relict grassland reference sites of Wyoming. A.L. Hild and T. Whitson. \$5,000.
- Falcon Information Technologies. 1997.** Sub-contract, NASA funding. Wyoming rangeland vegetation assessment using satellite imagery. A.L. Hild \$9,000.
- USDA-ARS. 1997.** Sagebrush community demographics at Fort Keogh Livestock and Range Research Lab; Miles City, Montana. A.L. Hild. \$2,000.
- Abandoned Mine Lands Research Program. 1997.** Climatic control of sagebrush survival for mined-land reclamation. B.L. Perryman, R.A. Olson, and A.L. Hild. \$60,000.