

LISA J. REW

Associate Professor - Non-native Plant Ecology

Appointment date at MSU: 2/22/2001 1.0 FTE 100% Research

Appointment, tenure-track: 01/01/2007 1.0 FTE (9 month)
54% Research, 36% Teaching, 10% Outreach

Education (In United Kingdom)

Ph.D. 1993 University of Reading, Weeds and Agroecology, Dept. of Agricultural Botany
BSc (Hons) 2i 1988 University of Southampton, Environmental Science (Specialised in Theoretical and Applied Ecology and Agroecology)

Professional Experience

2013- present Associate Professor, Montana State University, USA
2007 – 2013 Assistant Professor, Montana State University, USA
2001 - 2006 Assistant Research Professor, Montana State University, USA
1996 - 2000 Senior Research Scientist, NSW Agriculture, Tamworth, Australia
1993 - 1996 Higher Research Scientist, IACR Rothamsted, UK
1989 - 1992 Graduate Research Assistant, University of Reading, UK
1988 - 1989 Research Assistant, 3 short-term contracts at institutions in Britain (Agrochemical Evaluation Unit, Southampton University (3 months, 1989). British Rail Technical Centre, Derby (4 months, 1989). Wiggins Teape, Ivybridge (6 months 1988/89))
1987 Research Assistant, The Game Conservancy, Fordingbridge, UK

Professional and Honor Societies

British Ecological Society
European Weed Research Society
Ecological Society of America
International Weed Science Society
Weed Science Society of America
Western Society of Weed Science

Awards, Honors, or Significant Recognition

Nominated for James and Mary Ross Provost's Award for Excellence, 2014, 2015
Teaching Award of Merit, North American Colleges & Teachers of Agriculture, 2011
Nominated for: Provost's award for undergraduate research and creativity mentoring. 2011, 2013
Nominated for: Presidents Excellence in Teaching Award, 2010, 2011 and 2014
Outstanding Paper Award, Invasive Plant Science and Management Journal with Lehnhoff EA, Rew LJ, Maxwell BD, and Taper ML, 2009
Highest final project grade (1 year project) for BSc (Hons), 1988

Advisee Student Awards

Institute on Ecosystems Undergraduate Fellowships:

Noelani Boise (Summer 2014)
 Chance Noffsinger (Summer 2014)
 Undergraduate Scholars Program:
 Jeff Patriache (2013 fall, 2014 spring)
 Christian Larson (2012)
 Alexandre Wing (2010)
 Rose Marks (2009)
 Tyler Brummer (2008)
 WSSA Student Research Award:
 Alexandre Wing (2010)
 Rose Marks (2010)
 Tyler Brummer (2008)
 Zoe Isaacson (2007)

Major Committees

International

Invasive Plant Science and Management, Associate Editor	2014-present
Weed Research, Associate Editor	2001-2008, 2014-present
European Crop Protection, Precision Agriculture Review Committee	2013
MIREN (Mountain Invasion Research Network (Co-chair, 2012-present)	2007-present
Precision Weed Management Conference and Proceedings Committee Member	1997-1998

Grant panels

NIFA - AFRI – Controlling Weedy & Invasive Species	2013
NIFA - AFRI – Regional Approaches to Climate Change	2010
National Science Foundation GK-12	2007
USDA NRI ad-hoc reviewer	2004-2006

National

HATCH Project Review (Timothy Prather)	2012
Great Basin Research and Management Partnership (Coordinating Committee Member)	2012-present

State

Integrated Weed Management Committee, MWCA	2013-present
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University

Computer Fee Allocation Committee	2012-present
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University - College of Agriculture

MAES Project Review Committee (Catherine Zabinski)	2013
MAES Project Review Committee (William Dyer)	2011
MAES Project Review Committee (Jane Mangold)	2010
MAES Project Review Committee (Clayton Marlow)	2009
MAES Project Review Committee (Jeff Littlefield)	2004
Undergraduate Scholarship Committee	2010-present

University - Department of Land Resources and Environmental Science

Promotion and Tenure Committee	2014-2016
Restoration and Rehabilitation Masters Taskforce, Chair	2013-2014
In-depth Peer Evaluation of Teaching Committee	2007-present
Head of Department Search Committee	2008
Invasive Plant Management Faculty Search Committee	2008
Faculty Affairs – non-tenure promotion Committee	2006-2008
Applied Statistics & Ecology Masters Steering Committee	2005-2010
Department Executive Committee	2004-2008

International Activities

<i>Chile</i>	Invited speaker Laboratory of Biological Invasions Concepcion, Chile (2014)
<i>Chile</i>	Invited speaker MIREN annual meeting, Pucon, Chile (2012)
<i>Scotland</i>	Co-organizer of Invasive Plants in Mountain Ecosystems Session at Global Change in Mountain Ecosystems Conference, Perth, Scotland (2010)
<i>Canada</i>	Invited speaker at International Weed Science Society Conference, Vancouver, British Columbia (2008)
<i>Spain</i>	Co-organizer MIREN annual meeting, Canary Islands, (2007)
<i>Canada</i>	Invited speaker at Canadian Plant Science Meeting, Saskatchewan, (2007)
<i>Britain</i>	Invited speaker for IACR – Rothamsted Station Seminar Series (2004)
<i>Spain</i>	Invited speaker at Precision Agriculture Working Group Meeting, Madrid (2003)
<i>Brazil</i>	Session organizer at the Third International Weed Science Congress, Foz du Iguassu (2000)
<i>Australia</i>	Co-organizer of Site-specific Weed Management in Wagga Wagga Australia, speakers invited from USA and within Australia (1999)
<i>Australia</i>	Co-hosted Dr. Dave Mortensen, (Weed Ecologist), Tamworth (1999)
<i>Denmark</i>	Invited paper and session chair at Precision Agriculture '99 Conference, Odense (1999)
<i>Britain</i>	Co-chair of Site-specific Management Session at The Brighton Conference, British Crop Protection Council, Brighton, Sussex, UK, (speakers from USA, Australia and within Europe) (1995)
<i>Britain</i>	Co-Hosted Dr. Bruce Maxwell (Weed Ecologist) while at Rothamsted (1995)
<i>Britain</i>	Co-hosted Dr. Richard Medd (Weed Specialist) (1994)

Professional and Public Service Activities

Unlikely Stowaways: Weed seeds travel to faraway places on cars, trucks and ATVs - WSSA press release (October 19th 2011)
 Under the Hood – Radio Program seed transport highlighted and featured. July 2011
 Hitch hiking in Idaho – featured in Gem State Producer, Idaho Farm Bureau (April 2011, Vol 15, pg 16-19)
 Radio segment for MSU’s “Most Valuable Professor” (11/14/2009)
 Co-organizer and chair of GIS for Invasive Plant Management and Research Symposium, Weed Science Society of America, 4-7 February (2008)
 Session chair at Western Weed Science Society (2006)
 6 newspaper articles (2006)
 2 television (AgLive) appearance (2004, 2007)
 Co-organizer and chair for Site-specific Weed Management Symposium, 3rd International Weed Control Congress, Brazil (2000)
 4 television and 2 radio interviews to report outcomes of research to the rural community while in Australia (1999-2000)
 Co-organized and chaired a Precision Agriculture Symposium for the Brighton Crop Protection Conference – Weeds, Britain (1995)
 One television and two radio interviews in Britain (1993-1996)

Reviewer

Journals. Currently associate editor for Invasive Plant Management and Science and Weed Research. I have also reviewed for: Agriculture, Ecosystems and Environment, Applied Ecology, Austral Ecology, Basic and Applied Ecology, Biological Invasions, Canadian Journal of Plant Science including “Topics in Canadian Weed Science”, Diversity and Distributions, Intermountain Journal of Science, Journal of Applied Ecology, Journal of Ecology, Precision Agriculture, Weed Science, Weed Technology.

Co-Editor of “*Inventory and survey methods for non-indigenous plant species*” Published by the Extension Service and Center for Invasive Plant Management.

Research Activities

Grants and Contracts:

Post-tenure track

2014	\$24,953	Lehnhoff E., Seipel T., Rew L.J., Mangold J., and Menalled F. Mitigating the impact of cheatgrass under a changing climate. Montana Noxious Weed Trust Fund. 1 yr.
2013	\$39,273	Lehnhoff E., Seipel T., and Rew L.J. Assessing the influence of fire and grazing on cheatgrass. Montana Noxious Weed Trust Fund. 1 yr.
2013	\$9,625	Rew L.J., and Seipel T. Research on the interactions of bison grazing and fire on the American Prairie Reserve, south Phillips County, Montana. World Wildlife Fund, MT, 1 yr.
2012	\$6,594	Maxwell B., Rew L.J., Bekkerman A., and Belsky J. Identifying the factors and interactions influencing agroecosystem sustainability thresholds. Institute on Ecosystems, 2 yr.

2012	\$11,700	Rew L.J., Maxwell B.D., and Lavin M. Survey, monitoring and predicting the occurrence and spread of native and non-native plants species at Idaho National Laboratories. DOE-Stoller Corporation, 1 yr.
2011	\$77,908	Rew L.J., Maxwell B.D., and Lavin M. Survey, monitoring and predicting the occurrence and spread of native and non-native plants species at Idaho National Laboratories, II. DOE-Stoller Corporation, 1 yr.
2011	\$13,000	Rew L.J. and Maxwell B.D. Prioritizing invasive non-native plant populations and species to manage spatial distribution and spread models. US Fish, Wildlife Service. 1 yr.
2010	\$25,000	Rew L.J. and Maxwell B.D. Prioritizing invasive non-native plant populations and species to manage spatial distribution and spread models. US Fish, Wildlife Service. 1 yr.
2010	\$10,000	Rew L.J. Research Fencing to Protect Resources at Grant-Kohrs Ranch NHS. 1 yr.
2010	\$26,700	Lehnhoff, E. Zabinski C., Rew L., Menalled F., and Galli-Noble E. Saltcedar effects on mycorrhizal fungal communities and screening of native species for use in restoration of saltcedar degraded communities. Montana Noxious Weed Trust Fund. 2 yr.
2009	\$166,951	Rew, L.J., Maxwell, B.D., and Lavin, M. Survey, monitoring and predicting the occurrence and spread of native and non-native plants species at Idaho National Laboratories. DOE-Stoller Corporation, 2 yr.
2009	\$18,571	Keith, B., Rew, L.J., Dyer, W. and Brummer, T. Understanding invasion dynamics – case study for Dalmatian toadflax. Montana Noxious Weed Trust Fund. 2 yr.
2009	\$25,468	Lehnhoff, E. Menalled, F., Rew, L.J., Mangold, J., Cramer, J. and Galli-Noble, E. Assessing plant community and soil characteristics after saltcedar invasion and treatment. Montana Noxious Weed Trust Fund. 1 yr.
2009	\$400,003	Maxwell, B.D., Rew, L.J., and Backus, V. Invasive plant inventory, mapping and management tools for army training lands. DOD, CERL. 3 yr.
2008	\$490,987	Rew, L.J., Antle, J.M., Maxwell, B.D., and diTomaso, J. A decision support prioritization framework for non-indigenous plant population management. USDA-NRI-CSREES. 4 yr.
2008	\$104,715	Rew, L.J. Track 1, GK-12, Science and Society Fellows: partnering with rural schools in the greater Yellowstone Ecosystem. NSF GK-12. 2 yr.
2008	\$24,483	Rew L.J., Dougher F., and Pollnac F. Evaluation of weed seed dispersal by off-road vehicles. Montana Noxious Weed Trust Fund. 1 yr.
2008	\$29,520	Menalled, F.D., and Rew, L.J. Saltcedar regenerative ecology. Montana Noxious Weed Trust Fund. 1 yr.

2007	\$981,341	Rew L., Balbach H., Gonzales R., Fleming J., and OrHai Q. Developing functional parameters for a science-based vehicle cleaning program to reduce transport of non-native invasive plant species. Strategic Environmental Research and Development Program. 3 yr.
2007	\$1,767,487	Rew L., Swanson E. Science and Society Fellows Program: Partnering with rural schools in the Greater Yellowstone Ecosystem. 3 yr. (started 2005 extended to 2009, taken on from original PI Lisa Graumlich)
2007	\$36,781	Lawrence, R., Clay D., Engel R., Olsen B., Rew L., Sivanpillai R., Smith A., and Zhang X. AgCam Science Applications Team, 2 yr.
Pre-tenure track		
2006	\$7,307	Menalled, F.D., Harbuck K., and Rew L.J. Weed seedbank composition and dynamics in small grain fields. Montana Wheat and Barley Committee, 1yr.
2006	\$5,000	Rew L., and Dougher T. The use of native plant sod buffer to reduce invasion of non-native species from residential areas to wildland areas. Center for Invasive Plant Management. 1.5 yr.
2006	\$4,992	Rew L., and Maxwell B.D. Predicting the occurrence of non-indigenous plant species in the Greater Yellowstone Ecosystem: A comparison of two models. Center for Invasive Plant Management. 1 yr.
2005	\$224,860	Maxwell B., Antle J., Aspinall R., and Rew L. Developing and integrating tolls for assessing the impacts of invasive plants for prioritization of management on federal lands. USDA-Preism. 3 yr.
2005	\$5,000	Lehnhoff E., and Rew, L. Assessing the effect of the scale of soil disturbance on the colonization potential of yellow toadflax (<i>Linaria vulgaris</i>) and native vegetation. Center for Invasive Plant Management. 1yr.
2005	\$7,306	Menalled F., Harbuck K., and Rew L. Weed seedbank composition and dynamics in small grain fields. AES. 1 yr.
2005	\$5,000	Rew L. Effects of fire on nonnative invasive plants. USDA Forest Service. 1 yr.
2004	\$288, 289	Shi X., Dollhopf D., Dougher T., and Rew L. Using Reinforced Native Grass Sod for Biostrips, Bioswales, and Sediment Control. Caltrans. 3yr.
2004	\$4,900	Rew L. Surveying for non-indigenous plants in the Gallatin National Forest. UDSA-FS. 2yr.
2004	\$100,000	Rew L., Maxwell B., and Menalled F. A synthesis of the literature to “understand how forest management practices affect species invasion and impacts”. National Commission for Science and Sustainable Forestry. 3 year.
2004	\$51,683	Rew L., and Wood S. Intermountain Region Weed Inventory and Mapping Program. National Park Service. 2 yr.

2003	\$59,876	Rew L., and Maxwell B. Review of the effect of wildfire on the occurrence and expansion of non-indigenous species distribution in natural areas. Center for Invasive Plant Management. 2yr.
2003	\$5,000	Rew L., Maxwell B., and Weaver T. Determining non-native indigenous plant propagule pressure with distance from roads. Center for Invasive Plant Management. 1yr.
2003	\$121,750	Jacobs J., and Shelley R. Ecologically based integrated weed management to restore plant diversity. Western Region Sustainable Agricultural Research and Education. 4yr. (Took over as PI 2006)
2002	\$7,012	Rew L., and Maxwell B. Development of an integrated weed management plan for the northern district of Bighorn Canyon NRA.
2001	\$168,355	Rew L., and Maxwell B. Non-native Vascular Plant Inventory. USDA, Greater Yellowstone Network. 4 yr.

Cooperative Agreements

2005-6	\$12,781	Rew L. Inventory and predictions of noxious weeds along Montana Highways. Montana Department of Transport.
2005-8	\$6,719	Rew L. Coordinating spatial data on noxious weed occurrence in the Gallatin and Big Sky weed management area. Natural Resources Conservation Service.

Graduate Fellowships

2012	\$2,500	Bridges, M. Fellowship, Institute on Ecosystems, 1 yr.
2012	\$2,500	Pollnac F. Fellowship, Institute on Ecosystems, 1 yr.
2012	\$5,000	Skurski, T. Fellowship, Institute on Ecosystems, 1 yr.
2008	\$40,500	Pollnac F. National Science Foundation Fellowship through Big Sky Institute, 1 yr.
2007	\$40,500	Lehnhoff E. National Science Foundation Fellowship through Big Sky Institute, 1 yr.
2007	\$40,388	Dorsey B. Western Transportation Institute, 2 yr.
2006	\$40,500	Lehnhoff E. National Science Foundation Fellowship through Big Sky Institute, 1 yr.
2006	\$40,388	Stark J. Western Transportation Institute, 2 yr.
2005	\$40,388	Stott L. Western Transportation Institute, 2 yr.

Teaching Activities

Course Number	Course Title	Credits	Years Taught	Enrollment
LRES110 ENSC110 from 2011	Introduction to Land Resources and Environmental Sciences	3	2003-present Fall	36-105
LRES441	Capstone, 1	1	2008, 2010 Spring	18

LRES442	Capstone, 2	3	2008, 2010 Fall	18
LRES500	Seminar	1	2010 Fall	23
ENSC410/ LRES510	Biodiversity Survey and Monitoring	3	2011-present Fall	8

Independent Studies:

LRES 592. Taryn Preston, Fall 2014.

LRES 592. Sarina Bao, Spring 2014.

Additional:

NWMCW (Noxious Weed Management Certification Workshop: Level 2) delivered “Mapping, surveying and prioritizing weed management”. October 2-4th 2013, Bozeman, Montana. Enrollment ~30.

NWMCW (Noxious Weed Management Certification Workshop: Level 1) delivered “Introduction to mapping and surveying invasive plants”. April 1-3th 2013, Bozeman, Montana. Enrollment ~30.

NWMCW (Noxious Weed Management Certification Workshop: Level 2) delivered “Mapping, surveying and prioritizing weed management”. October 2-4th 2012, Bozeman, Montana. Enrollment ~30.

NAIPSC (North American Invasive Plant Ecology and Management Short Course) delivered “Spatial distribution and analysis of invasive plant species” and participated discussion sessions June 26-28th, 2012 North Platte, Nebraska. Enrollment ~50.

NWMCW (Noxious Weed Management Certification Workshop: Level 1) Introduction to mapping and surveying invasive plant. April 3-5th 2012, Bozeman, Montana. Enrollment ~30.

NAIPSC (North American Invasive Plant Ecology and Management Short Course) delivered “Spatial distribution and analysis of invasive plant species” and participated discussion sessions July 6-8th, 2011 North Platte, Nebraska. Enrollment ~47.

CIPM: Rew LJ delivered “Stratified Random Sampling Webinar” for the “Inventory and survey methods for invasive plant species course” offered by the Center for Invasive Plant Management, February 10th 2010, enrollment around 143.

LRES580: Writing skills. Guest lecture on proposal writing. 2009.

LRES 441 and 442: Capstone. Assisted with field course and data analysis in 2005 and 2007.

CIPM Integrated Weed Management web-based course co-taught Plant Management, 2004-2007, enrollment around 20.

Crop and Pest Management School. One hour presentation in 2005 and 2007.

Advising

Graduate Committees Completed:

2014	Sarina Bao (Chair)	MS
2014	Josh Buckmaster (Committee)	MS
2014	Marley Vaughn (Committee)	MS (On-line)

2013	Evelyn Konigsberg (Committee)	MS
2013	Ryan Quire (Committee)	MS
2012	Andrew Schnell (Committee)	MS
2012	Fredric Pollnac (Chair)	PhD
2012	Melissa Bridges (Co-chair)	PhD
2012	Tanya Skurski (Co-chair)	PhD
2012	Nathan Piekielek (Committee)	PhD
2012	Tyler Brummer (Principal)	MS
2011	Benjamin Dorsey (Principal co-chair)	MS
2009	Jennifer Stark (Principal)	MS
2009	Steve Jay (Committee)	MS
2008	Erik Lehnhoff (Principal co-chair)	PhD
2005	Charles Repath (Principal co-chair)	MS
2007	Fred Pollnac (Committee)	MS
2007	Kristen Harbuck (Committee)	MS
2007	Lance Stott (Committee)	MS
2006	Brad Bauer (Committee)	MS
2004	Nicole Wagner (Committee)	PhD

Undergraduate Projects Completed:

2014	Chance Noffsinger, Institute on Ecosystems, Undergraduate Fellowship
2014	Noelani Boise, Institute on Ecosystems, Undergraduate Fellowship
2013	Jeff Patriache, Undergraduate Scholars Research Project
2012	Christian Larson, Undergraduate Scholars Research Project
2010	Alexandre Wing, Undergraduate Scholars Research Project
2009	Rose Marks, Undergraduate Scholars Research Project
2008	Tyler Brummer, Undergraduate Scholars Research Project
2008	Ron Quinn, Undergraduate Internship
2006	Jackie Crever, Undergraduate Research Project

Currently advising:

As Graduate Principal: 2
As Graduate Committee Member: PhD. 2
As Undergraduate Advisor: 15
As Undergraduate Research Advisor: 3

2014	Emily Pierson, MS (Principal)
2013	Christian Larson, MS (Principal)
2011	Kim Taylor PhD (Committee)
2010	Patrick Lawrence, PhD (Committee)

Publications
REFEREED
Submitted:

- Taylor K, Maxwell B, Pauchard A, Nunez M, Peltzer D, Terwei A, and Rew L. (submitted) Drivers of plant invasion vary globally: evidence from pine invasions in six ecoregions. *Global Ecology and Biogeography*. Submitted 1/21/2015. GEB-2015-0025.
- Lavin M, Taylor K, Brummer TJ, Rotella J, Maxwell BD, and Rew LJ (2013). (submitted) Climate strongly controls *Bromus tectorum* dominance in unburned sagebrush steppe. *Ecosystems*. Submitted 2/10/2015. ECO-15-0058

Journal Articles:

- Seipel T, Alexander JM, Daehler CC, Rew LJ, Edwards PJ, Dar PA, McDougall K, Naylor B, Parks C, Pollnac FW, Reshi ZA, Schroder M and Kueffer C (2015) Performance of the herb *Verbascum thapsus* along environmental gradients in its native and non-native ranges. *Journal of Biogeography*. 42(1), 132-143.
- Lawrence PG, Rew LJ and Maxwell BD (2014) *Optimizing Site-Specific Adaptive Management Using a Probabilistic Framework: Evaluating Model Performance Using Historic Data*. Oral Paper presented at the 12th International Conference on Precision Agriculture, Sacramento, CA.
- Kueffer C, Daehler CC, Dietz H, McDougall K, Parks C, Pauchard A and Rew LJ (2014) The Mountain Invasion Research Network (MIREN): Linking local and global scales for addressing and ecological consequence of global change. *GAIA – Ecological Perspectives for Science and Society*, 263-265. (Special Interdisciplinary Award).
- Lawrence PG, Rew LJ and Maxwell BD. (2014) A probabilistic Bayesian framework for progressively updating site-specific recommendations. *Precision Agriculture*, 1-22. (online: <http://dx.doi.org/10.1007/s11119-014-9375-4>).
- Skurski TC, Rew LJ and Maxwell BD (2014) Mechanisms underlying non-native plant impacts: a review of recent experimental research. *Invasive Plant Science and Management* (online: <http://dx.doi.org/10.1614/IPSM-D-13-00099.1>)
- Taylor K, Brummer TJ, Lavin M, Rew LJ and Maxwell BD (2014) *Bromus tectorum* response to fire varies with climate conditions. *Ecosystems*, 17(6), 960-973.
- Pollnac F and Rew LJ (2014) Life after establishment: factors structuring a successful mountain invader away from disturbed roadsides. *Biological Invasions*, 1-10.
- Pollnac F, Maxwell BD, Taper M and Rew LJ (2014) The demography of native and non-native plant species in mountain systems: Examples in the Greater Yellowstone Ecosystem. *Population Ecology*, 56(1), 81-95.
- Lavin M, Brummer T, Seipel T, Maxwell B, and Rew L (2013) The intermountain flora sets the stage for a community phylogenetic analysis of plant biodiversity in the sagebrush steppe of western North America. *Memoirs of the New York Botanical Garden, Volume 108*: 63-84.
- Irvine, K, Michels JA, Backus VA, Hohmann, MG, Lehnhoff EA, Maxwell BD, and Rew LJ (2013) A comparison of adaptive sampling designs and binary spatial models: a simulation study using a census of *Bromus inermis*. *Environmetrics*, 24: 407-417.
- Lavin M, Brummer TJ, Quire R, Maxwell BD, and Rew LJ (2013) Physical disturbance shapes vascular plant diversity more profoundly than fire in the sagebrush steppe of southeastern Idaho, USA. *Ecology and Evolution*, 3, 1-16.
- Brummer TB, Maxwell BD, Higgs M, and Rew LJ. (2013) Implementing and interpreting local scale invasive plant species distribution models. *Diversity and Distribution*, 19, 1-4.
- Skurski TC, Maxwell BD and Rew LJ (2013) Ecological tradeoffs in non-native plant management. *Biological Conservation*, 159: 292-302.

- Taylor K, Brummer TJ, Taper ML, Wing A and Rew LJ (2012) Human mediated long distance dispersal: an empirical evaluation of seed dispersal by vehicles. *Diversity and Distributions*, 18, 942-951.
- Maxwell BD, Backus V, Hohmann M, Irvine KM, Lehnhoff E, and Rew LJ (2012) Comparison of transect based standard and adaptive sampling methods for invasive plant species. *Invasive Plant Science and Management*, 5, 178-193.
- Pollnac F, Seipel T, Repath C, and Rew LJ (2012) Plant invasion at landscape and local scales along roadways in the mountainous region of the Greater Yellowstone Ecosystem. *Biological Invasions*, 14, 1753-1763.
- Lehnhoff EA, Rew LJ, Zabinski C and Menalled FD (2012) Reduced impact or longer lag phase? *Tamarix* in the northwestern United States. *Wetlands*, 32, 497-508.
- Lehnhoff EA, Rew LJ, Zabinski CA, and Menalled FD (2012) Impacts of tamarisk (*Tamarix* spp.) on soil and plant community composition in Montana, USA. *Wetlands*, 32, 497-508.
- Moyo-Elizondo EA, Rew LJ, Jacobsen BJ, Hogg AC and Dyer A (2012) Distribution and severity of Fusarium crown rot and common root rot of wheat in Montana using real-time qPCR and conventional isolation. *Plant Disease*, 95, 1099-1108.
- Seipel T, Kueffer C, Rew LJ, Daehler CC, Pauchard A, Naylor BJ, Alexander JM, Edwards PJ, Parks CG, Arevalo J, Cavieres LA, Dietz H, Jakobs G, McDougall K, Otto R, and Walsh N. (2012) Processes at multiple scales affect variation in non-native plant species richness and similarity in mountains around the world. *Global Ecology and Biogeography*, 21, 236-246.
- Lehnhoff, EA, Menalled, FD, and Rew, LJ (2011) Tamarisk (*Tamarix* spp.) establishment in its most northern range. *Invasive Plant Science and Management*, 4, 58-65.
- Alexander JM, Kueffer C, Daehler CC, Edwards PJ, Pauchard A, Seipel T & MIREN consortium: Arevalo J, Cavieres L, Dietz H, Jakobs G, McDougall K, Naylor B, Otto R, Parks CG, Rew L, Walsh N. (2011) Assembly of non-native floras along elevational gradients explained by directional ecological filtering. *Proceedings of the National Academy of Science*, 108, 656-661.
- Rew LJ and Johnson MP (2010) Reviewing the role of wildfire on the occurrence and spread of invasive plant species in wildland areas of the intermountain western United States. *Invasive Plant Science and Management*, 3, 347-364.
- Stott L, Dougher TAO, and Rew LJ (2010) Developing native multispecies sod: an alternative restoration method for disturbed lands. *Restoration Ecology*, 18, 742-752.
- Pauchard A, Kueffer C, Dietz H, Daehler CC, Alexander J, Edwards, PJ, Arévalo JR, Billeter R, Cavieres L, Guisan A, Haider S, Jakobs G, Mack RN, McDougall K, Millar CI, Naylor BJ, Parks CG, Poll M, Rew LJ, Seipel T (2009) Ain't no mountain high enough: Plant invasion reaching high elevations. *Frontiers in Ecology*. 7, 479-486.
- Maxwell BD, Lehnhoff EA, and Rew LJ (2009) The rationale for monitoring invasive plant populations as a crucial step for management. *Invasive Plant Science and Management*, 2, 1-9.
- Rew LJ, and Johnson MP (2008) Response to change: understanding how forest management activities affect non-indigenous species occurrence and distribution. *Journal of Sustainable Forestry*, 27, 275-302.
- Pollnac FW, Rew LJ, Maxwell BD, and Menalled FD (2008) Spatial patterns, species richness, and percent cover in weed communities of organic and conventional no-tillage spring wheat systems. *Weed Research*, 48, 398-407.

- Lehnhoff EA, Rew LJ, Maxwell BD, and Taper ML (2008) Quantifying invasiveness of plants: a test case with yellow toadflax (*Linaria vulgaris*). *Invasive Plant Science and Management*, 1, 319-325.
- Lehnhoff EA, Woolbaugh W, and Rew LJ (2008) Designing the perfect plant: activities and a game to investigate plant ecology. *Science Scope*, 32, 29-35.
- Rew LJ, Lehnhoff EA, and Maxwell BD (2007) Non-indigenous species management using a population prioritization framework. *Canadian Journal of Plant Sciences*. 87, 1029-1036. [Invited].
- Wagner NC, Maxwell BD, Taper ML, and Rew LJ (2007) Developing and empirical yield-prediction model based on wheat and wild oats (*Avena fatua*) density, nitrogen and herbicide rate and growing-season precipitation. *Weed Science*, 55, 652-664.
- Smith RG, Maxwell BD, Menalled FD, and Rew LJ (2006) Lessons from agriculture may improve the management of invasive plants in wildland systems. *Frontiers of Ecology and the Environment*, 4, 428-434.
- Rew LJ, Maxwell BD, Aspinall RJ, and Dougher FL (2006) Searching for a needle in a haystack: evaluating survey methods for sessile species. *Biological Invasions*, 8, 523-539.
- Rew LJ, Maxwell BD, and Aspinall R (2005) Predicting the occurrence of nonindigenous species using environmental and remotely sensed data. *Weed Science*, 53, 236-241. [Invited]
- Rew LJ, Medd RW, Van De Ven R, Gavin JJ, Robinson GR, Tuitee M, Barnes J, and Walker S (2005) Weed diversity and abundance on farms in the sub-tropical grain region of Australia. *Australian Journal of Experimental Agriculture*, 45, 711-723.
- Parks CG, Radosevich SR, Endress BA, Naylor BJ, Anzinger D, Rew LJ, Maxwell BD, and Dwire KA (2005) Natural and land use history of the Northwest Mountainous Ecoregions (U.S.A.) in relation to patterns of plant invasions. *Perspectives in Plant Ecology, Evolution and Systematics*, 7, 137-158.
- Barroso J, Ruiz D, Fernández-Quintanilla C, Leguizamon ES, Hernaiz P, Ribeiro A, Diaz B, Maxwell BD, and Rew LJ (2004) Comparison of sampling methodologies for site-specific management of *Avena sterilis*. *Weed Research*, 45, 165-174.
- Barroso J, Fernández-Quintanilla C, Maxwell BD, and Rew LJ (2004) Simulating the effects of weed spatial pattern and resolution of mapping and spraying on economics of site specific management. *Weed Research*, 44, 461-468.
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- Rew LJ, Maxwell BD, Lavin M, Brummer T and Taylor K (2012) Survey, Monitoring and Predicting the Occurrence and Spread of Native and Non-Native Plant Species at Idaho National Laboratories. Final report to Stoller Gonzales LLC and Department of Energy. May 2012. pp. 35.
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Short Course/Workshop Presentations, Post 2006

- Rew LJ (2012) Yellowstone plant invasions – an update. MIREN – Mountain Invasions REsearch Network Workshop, November 22-26th, Pucon, Chile. [Invited]
- Brummer T, LJ Rew, Taylor K, Wing A, Pollnac F, and Hal Balbach (2012) *Terrestrial Invasive Plants and OHVs: magnitude of risk, dispersal, mitigation*. 2012 NOHVCC and INOHVAA Annual Training Conferences. August 28, 2012, Great Falls, Montana. [Invited]
- Rew LJ (2012) Weed seed attached to vehicles. South Dakota Weed and Pest Conference. February 23-24th, 2012 Rapid City, South Dakota. ~210 [Invited]
- Rew LJ (2012) Predictive weed maps. South Dakota Weed and Pest Conference. February 23-24th, 2012 Rapid City, South Dakota. ~210 [Invited]
- Lehnhoff E, Backus V, Maxwell B and Rew L (2011) Non-indigenous plant survey considerations and methods. Pest Surveillance Update Meeting. Web-seminar Lethbridge, AL, Canada, ~70. March 2011.
- Rew LJ, Wing A and Pollnac F (2010) Dispersal and spread of plant propagules. MIREN – Mountain Invasions REsearch Network Workshop, Perth, Scotland, UK, September 23-24th 2010.
- Rew, LJ (2010) Minimizing movement of weed seeds. Crop and Weeds Field Day, Post Research Farm, Montana State University, July 8th 2010.
- Rew LJ delivered “Stratified Random Sampling Webinar” for the “Inventory and survey methods for invasive plant species course” offered by the Center for Invasive Plant Management, February 10th 2010.
- Rew LJ, Maxwell BD taught two segments of a multi-segment Integrated Weed Management web-based course offered by the Center for Invasive Plant Management Spring, 2004, 2005, 2006 and 2007.
- Rew LJ, Swanson E, and Keith B. co-taught GK-12 Science and Society Workshop. GK-12 Science and Society Workshop. July 23-24, Bozeman, MT. (2007, 2008)
- Seipel T, Pollnac F, and Rew LJ (2008) Survey of invasive plants in mountain regions. MIREN – Mountain Invasions REsearch Network Workshop, Snowy Mountains, Australia, December 1-5. [Invited].
- Maxwell BD, Antle J, and Rew LJ (2008) Developing and integrating tools for assessing the impacts of invasive plants for prioritization of management on federal lands. *USDA-PREISM, Invasive Species Review and Workshop*, November, Washington DC [Invited].
- Rew LJ, and Seipel T (2007) Effect of the altitude and roadways on species distribution in the Greater Yellowstone Ecosystem. MIREN – Mountain Invasions REsearch Network Workshop, Tenerife, Canary Islands, Nov. 26-29. [Invited].
- Co-taught GK-12 Science and Society Workshop. Rew LJ, Swanson E, and Keith B (2007) GK-12 Science and Society Workshop. July 24-26th Bozeman, MT.
- Rew LJ, Johnson M, Maxwell BD, and Menalled F (2006) Predicting the effect of forest management practices on non-native species invasions. NCSSF Annual Meeting, Denver, Colorado 26-28th April. [Invited].
- Rew LJ (2006) Predicting occurrence, prioritizing monitoring and improving management efficiency. MIREN – Mountain Invasions REsearch Network Workshop, Cove, Oregon Sept. 24-27. [Invited].
- Rew LJ, Gonzales R, Fleming J, OrHai Q, and Balbach H (2006). Developing standards and protocols for vehicle washing systems. Arlington, VA 19th October 2006. [Invited].
- Maxwell B, Rew L, Menalled F, Hulting A, Bauer B, and Lehnhoff E (2006) Linking spatial and temporal population dynamics. EWRS workshop on modelling weed population

dynamics, 24 – 26 October 2006, Flakkebjerg, Denmark. [Invited].

Community/Other Scientific Presentations, Post 2006

- Maxwell BD and Rew LJ (2013) Understanding non-native plant invasions for best management practices. July 15, 2013, University of Alberta, Edmonton, AB.
- Rew LJ (2013) Seed movement by vehicles. Noxious Weed Management Advisory Council, January 14th, 2013, Great Falls, MT. [Invited]
- Rew LJ, Maxwell B, Lehnhoff E, Skurski T, Bridges M, Brummer T, Lawrence P and Pollnac F (2013) A decision support prioritization framework for non-indigenous plant population management. USDA PI project meeting, January 8th 2013, Washington DC.
- Rew LJ (2012) Restoring damaged lands – sample class. MSU Friday. March 23 2012. [Invited]
- Rew LJ and Maxwell BD (2011) Understanding plant invasions. Research Talk: Mammoth Hot Springs, Yellowstone National Park. December 12th 2011. [Invited]
- Rew L, Pollnac F (2010) Seed dispersal by vehicles.
<http://archive.constantcontact.com/fs081/1102918945216/archive/1103024560170.html>
- Rew LJ (2010) Developing functional parameters for a science-based vehicle cleaning program to reduce transport of non-indigenous invasive plant species. In-progress Review Meeting, SERDP, Arlington, VA, May 4th 2010.
- Rew LJ (2009) Developing functional parameters for a science-based vehicle cleaning program to reduce transport of non-indigenous invasive plant species. In-progress Review Meeting, SERDP, Arlington, VA, April 28th 2009.
- Skurski T, Maxwell BD, and Rew LJ (2009) Assessing plant community and environmental covariates of *Bromus tectorum* impacts. Montana State University Student Research Celebration, April 2009. Poster presentation.
- Rew LJ, Skurski T, Lehnhoff E, and Maxwell BD (2009) Survey and predicting occurrence to prioritize monitoring and improve management efficiency. Montana County Weed Coordinator Spring Training, March 2009.
- Skurski T, Maxwell BD, and Rew LJ (2009) Quantifying invasiveness of non-indigenous plant populations. Montana County Weed Coordinator Spring Training, March 2009.
- Maxwell BD, Lehnhoff E and Rew LJ (2009) The value of monitoring for prioritizing weed management. Montana County Weed Coordinator Spring Training, March 2009.
- Rew LJ (2008) Developing a weed management plan. Presentation to Park County Weed Management Association. 9 December, 2008. Livingston, MT.
- Rew LJ (2008) Developing functional parameters for a science-based vehicle cleaning program to reduce transport of non-indigenous invasive plant species. In-progress Review Meeting, SERDP, Arlington, VA, May 5th 2009.
- Maxwell BD, and Rew LJ (2008) Weed dispersal along roads. Guest lecture for CE 552 Road Ecology Class, 13 November, 2008.
- Rew LJ, Stark J, Stott L, and Dougher TAO (2008) Development and establishment success of multispecies sod. On-line class to Caltrans (California Dept. of Transport). 23 April, 2008.
- Brummer TJ, Maxwell BD, and Rew LJ (2008) Characterizing invasion of *Linaria dalmatica* at a population scale, April 2008. Poster presentation.
- Maxwell BD, and Rew LJ (2007). Prioritizing weed management. Invited in light of IPM School. Flathead Reservation, contact Rene Kittle. March. [Invited].
- Rew LJ (2007). Weed Management for Gardeners: beware the escapees. Gallatin Gardeners Club. April. [Invited].

- Rew LJ, and Dougher FL (2007). Developing a coordinated weed database for the Gallatin and Big Sky area. Gallatin Weed Summit. January. [Invited].
- Rew LJ, Maxwell BD, and Lehnhoff E (2007). Prioritizing noxious weed management: are all weed populations bad? Big Sky Institute, Community talk. January. [Invited].
- Maxwell, B.D., Rew LJ, Menalled F, Hulting A, Bauer B, and Lehnhoff E (2007). Linking spatial and temporal plant population dynamics, forecasting and informing management through the use of models. National University of Rosario, Zavalla, Santa Fe, Argentina. Sept. 2007. [Invited].
- Maxwell, B.D., Rew LJ, F. Menalled F, Hulting A, Bauer B, and Lehnhoff E (2007). Understanding spatial-temporal dynamics, forecasting and informing management through the use of models. National Institute of Technology and Agronomy (INTA), Balcarce, Argentina. Sept. 2007 [Invited].