

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
Society for Ecological Restoration
Weed Science Society of America
Western Society of Weed Science

Awards, Honors, or Significant Recognition

Nominated for Provost's for Graduate Research and Creativity Mentoring, 2016, 2017
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:

Kaylee Schmidt (Summer 2015)

Chance Noffsinger (Spring and Summer 2015)

Jeff Patriache (2013 Fall, 2014 Spring)

Christian Larson (2012)

Alexandre Wing (2010)

Rose Marks (2009)

Tyler Brummer (2008)

WSSA Student Research Award:

Chance Noffsinger (2015)

Alexandre Wing (2010)

Rose Marks (2010)

Tyler Brummer (2008)

Zoe Isaacson (2007)

Major Committees

International

Chair and Organizer of 8th MIREN Meeting

(Mountain Invasion Research Network)

Centennial Valley, MT, July 30-August 4, 2017

2017

Co-Chair, Biosecurity Symposium, Sweden,

2015

Invasive Plant Science and Management, Associate Editor

2014-2015

Weed Research, Associate Editor

2001-2008,

2014-present

European Crop Protection, Precision Agriculture Review
Committee

2013

MIREN (Mountain Invasion Research Network
(Co-chair, 2012-2017)

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)

2012-2017

State

Integrated Weed Management Committee, MWCA	2013-2017
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University

Computer Fee Allocation Committee	2012-present
Center for Faculty Excellence Mentor	2014, 2016

University - College of Agriculture

MAES Project Review Committee (Jane Mangold)	2017
MAES Project Review Committee (Rebecca VanWieran)	2017
MAES Project Review Committee (Ryan Thum)	2016
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	2010-2015

University - Department of Land Resources and Environmental Science

College and Department Scholarship Committee, Chair	2008-2014, 2016-present
Computer Fee Allocation Committee	2012-2014, 2016-present
Promotion and Tenure Committee, Chair	2016
Restoration and Rehabilitation Masters Taskforce, Chair	2013-2014
In-depth Peer Evaluation of Teaching Committee	2007-2015
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>USA</i>	Chair and Organizer of 8 th MIREN Meeting (Mountain Invasion Research Network), Centennial Valley, MT, Sunday July 30 th -Thursday 3 rd August, (2017)
<i>Chile</i>	Visit with Dr. Pauchard, Chile as part of sabbatical (5 weeks) (2016)
<i>Sweden</i>	Co-chair of MIREN biennial meeting in Flen and Abisko, Sweden (2015)
<i>Sweden</i>	Co-chair and co-organizer of a Biosecurity in mountains and high latitudes meeting in Flen, Sweden (2015)
<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 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, Folia Geobotanica, Intermountain Journal of Science, Journal of Applied Ecology, Journal of Ecology, Invasive Plant Science and Management, Precision Agriculture, Weed Science, Weed Technology.

Research Activities

Grants and Contracts:

Post-tenure track

2018	\$89,859	Rew L. Determining approaches to manage desert alyssum and improve sagebrush steppe communities CESU-Yellowstone National Park 3 yr.
2017	\$94,378	Grimberg de Menalled I., Dougher T., Mangold J., Rew L., and Sterling T. Empowering women in agriculture USDA-NIFA. 2 years.
2017	\$35,751	Mangold J, Rew L.J. Fuller K. Impacts on invasive grasses on forage, biodiversity and litter decomposition rates. 1.5 yr.
2016	\$35,778	Rew L.J., Lehnhoff E., Mangold J. Integrated management of dense cheatgrass on productive rangeland. 1.5 yr.
2015	\$608,760	Maxwell BD. Bekkerman A, Izurieta C, Jensco K, Payn R, Rew L, Sheppard J, Silverman N. On-farm precision experiment subproject of the Agriculture MRREDI Grant. 18 months.
2015	\$45,410	Rew L.J., Lehnhoff E., Seipel T., Mangold J., and Menalled F. Managing dense cheatgrass infestations on rangeland, and understanding its impacts under an altered climate. Montana Noxious Weed Trust Fund. 1.5 yr.
2014	\$24,953	Rew L.J., Lehnhoff E., Seipel T., Mangold J., and Menalled F. Mitigating the impact of cheatgrass under a changing climate. Montana Noxious Weed Trust Fund. 1.5 yr.
2013	\$39,273	Rew L.J., Lehnhoff E., and Seipel T. Assessing the influence of fire and grazing on cheatgrass. Montana Noxious Weed Trust Fund. 1.5 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., Aspinnall R., and Rew L. Developing and integrating tools 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 Biostrrips, 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	2003-2014 2017 onwards off years Fall	36-125
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
ENSC540	Plant Ecology, online (half)	1.5	2016-present	14

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:

2017	Emily Pierson (Chair)	MS
2016	Christian Larson (Chair)	MS
2016	Kimberley Taylor (Committee)	PhD
2016	Jason Baldes (Committee)	MS
2015	Patrick Lawrence (co-chair)	PhD
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:

2015	Kaylee Schmidt, Undergraduate Scholars Research Project	
2015	Chance Noffsinger, Undergraduate Scholars Research Project	
2015	Chance Noffsinger, Weed Science Society of America, Fellowship	
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	
2010	Alexandre Wing, Weed Science Society of America, Fellowship	
2009	Rose Marks, Undergraduate Scholars Research Project	
2008	Tyler Brummer, Undergraduate Scholars Research Project	
2008	Tyler Brummer, Weed Science Society of America, Fellowship	
2008	Ron Quinn, Undergraduate Internship	
2006	Jackie Crever, Undergraduate Research Project	

Currently advising:

As Graduate Principal: 0 MS
As Graduate Committee Member: PhD 1, MS 2
As Undergraduate Advisor: 15
As Undergraduate Research Advisor: 0

2017	David Wood, PhD (Committee)
2016	Audrey Harvey, MS (Committee)
2015	Madi Sellers, MS (Committee)

Publications

REFEREED

Submitted:

Metier E, Rew LJ and Rinella M (*In revision*) Restoring Wyoming big sagebrush to annual brome-invaded landscapes with seeding and herbicides. *Rangeland Ecology and Management*. 05/30/2018 RAMA-D-18-00005R1

Rew LJ, McDougall K, Albiñán A, Alexander J, Daehler C, Englund G, Essl F, Evengård B, Greenwood G, Haider S, Kueffer C, Lenoir J, Milbau A, Muths E, Nuñez M, Olofsson J, Pauchard A, Rabitsch W, Robertson M and Sanders N (*In revision*) The future of cold places: mobile species, global change and new challenges. *BioScience*, 16-0200.

Journal Articles:

- McDougall K, Lembrechts J, Rew LJ, Cavieres L, Haider S, Kueffer C, Milbau A, Naylor B, Nuñez MA, Pauchard A, Seipel T, Speziale K, Wright GT, Alexander JM (2018 *on-line*) Running off the road: roadside non-native plants invading mountain vegetation. *Biological Invasions*.
- Seipel T, Rew LJ, Taylor KT, Maxwell BD and Lehnhoff EA (*On-line 2018*) Resilience of native shrub-steppe to fire at the northern invasive limit of *Bromus tectorum*. *Applied Vegetation Science*. DOI: 10.1111/avsc.12370
- Haider S, Kueffer C, Bruehlheide H, Seipel T, Alexander J, Arévalo J, Cavieres L, McDougall K, Milbau A, Naylor B, Rew L, Speziale K, Pauchard A. (2018) Mountain roads and alien species alter biodiversity patterns, and homogenize plant communities along elevation gradients. *Global Change Biology*, 27, 667-678. DOI: 10.1111/geb.12727
- Lawrence PG, Maxwell BD, Rew LJ, Ellis C and Bekkerman A (2018) Vulnerability of dryland, agriculture regimes to economic and climatic change. *Ecology and Society*, 23 (1), 34 <https://doi.org/10.5751/ES-09983-230134>
- Alexander JM, Chalmandrier L, Lenoir J, Burgess TI, Essl F, Haider S, Kueffer C, McDougall K, Milbau A, Nunez MA, Pauchard A, Rabitsch W, Rew LJ, Sanders NJ and Pellissier L (2018) Lags in the response of alpine plant communities to climate change. *Global Change Biology*, 24(2), 536-579. 10.1111/gcb.13976
- Larson CD, Lehnhoff EA, Noffsinger C, Rew LJ (2018) Competition between cheatgrass and bluebunch wheatgrass is altered by temperature, resource availability, and atmospheric CO₂ concentration. *Oecologia*, 186 (3), 855-868. 10.1007/s00442-017-4046-6
- Rew LJ, Brummer TJ, Pollnac FW, Larson CD, Taylor KT, Taper ML, Fleming J, Balbach HE (2018) Hitching a ride: seed accrual rates on different types of vehicles. *Journal of Environmental Management*, 206, 546-555. 10.1016/j.jenvman.2017.10.060
- Larson C, Lehnhoff EA and Rew LJ (2017) Warming and drying does not promote a *Bromus tectorum*-fire feedback in the northern sagebrush steppe. *Oecologia*, 185, 763-774. doi:10.1007/s00442-017-3976-3
- Lembrechts J, Alexander J, Cavieres L, Haider S, Lenoir J, Kueffer C, McDougall K, Naylor B, Nuñez M, Pauchard A, Rew LJ, Nijs I, Milbau A. (2017) Mountain roads shift native and non-native plant species ranges. *Ecography*, 40, 353-364.
- Alexander JM, Cavieres L, Daehler C, Haider S, Kueffer C, Lembrechts JJ, Liu G, McDougall K, Milbau A, Naylor B, Pauchard A, Rew LJ, Seipel T. (2016) Alpine plant invasions: current status and future challenges. *Alpine Botany*, 126, 89-103.
- Taylor K, Maxwell B, Pauchard A, Nunez M, Peltzer D, Terwei A, and Rew LJ. (2016) Native versus nonnative invasions: Similarities and differences in the biodiversity impacts of *Pinus contorta* in introduced and native ranges. *Diversity and Distributions*, 22, 578-588.
- Brummer TJ, Taylor KT, Rotella J, Maxwell BD, Rew LJ and Lavin M. (2016) Drivers of *Bromus tectorum* abundance in the Western North American Sagebrush Steppe. *Ecosystems* 19 (6), 986-1000.

- Pauchard A, Albiñ A, Alexander J, Burgess T, Daehler C, Englund G, Essl F, Evengård B, Greenwood G, Haider S, Lenoir J, McDougall K, Milbau A, Muths E, Nuñez M, Olofsson J, Pellissier L, Rabitsch W, Rew LJ, Robertson M, Sanders N, Kueffer C. (2016) Non-native and native organisms moving into high elevation and high latitude ecosystems in an era of climate change: new challenges for ecology and conservation. *Biological Invasions*, 18, 345-353.
- Taylor K, Maxwell B, Pauchard A, Nunez M, Peltzer D, Terwei A, and Rew L. (2016) Drivers of plant invasion vary globally: evidence from pine invasions in six ecoregions. *Global Ecology and Biogeography*, 25, 96-106.
- BuckMaster J, Marlow C, Carr C, Rew L, and Roberts S. (2016). Post-grazing compositional analysis of an anthropogenically altered northern fescue grassland in northwestern Montana. *Northwest Science*, 90(4),379-393
- 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 (2015) A probabilistic Bayesian framework for progressively updating site-specific recommendations. *Precision Agriculture*, 16(3), 275-296.
- 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).
- 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*, 7(3): 432-444.
- 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*, 16(8), 1689-1698.
- 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, Leguizamón 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.
- Barroso J, Fernández-Quintanilla C, Ruiz D, Hernaiz P, and Rew LJ (2004) Spatial stability of *Avena sterilis* ssp. *ludoviciana* populations under annual applications of low rates of imazamethabenz. *Weed Research*, 44, 178-186
- Wallinga J, Kropff MJ, and Rew LJ (2002) Patterns of spread of annual weeds. *Basic and Applied Ecology*, 3, 31-38.
- Rew LJ, Whelan B, and McBratney AB (2001) Does kriging predict weed distributions accurately enough for site-specific weed control? *Weed Research*, 41, 245-263.
- Rew LJ, and Cousens RD (2001) Spatial distribution of weeds in arable crops: are current sampling methods appropriate? *Weed Research*, 41, 1-18.
- Rew LJ, Alston CL, Harden S, and Felton WL (2000) Counts versus categories: choosing the more

- appropriate weed scoring method. *Australian Journal of Experimental Agriculture*, 40, 1121-29.
- Lamb DW, Weedon MM, and Rew LJ (1999) Evaluating the accuracy of mapping weeds in seedling crops using airborne digital imaging. *Avena* spp. in seedling triticale (X *Triticosecale*). *Weed Research*, 39, 481-92.
- Paice MER, Day W, Rew LJ, and Howard A (1998) A stochastic simulation model for evaluating the concept of patch spraying. *Weed Research*, 38, 373-88.
- Rew LJ, and Cussans GW (1997) Horizontal movement of seeds following tine and plough cultivation: implications for spatial dynamics of weed infestation. *Weed Research*, 37, 247-56.
- Rew LJ, Miller PCH, and Paice MER (1997) The importance of mapping resolution for sprayer control. *Aspects of Applied Biology - Optimising pesticide applications*, 48, 49-56.
- Rew LJ, Cussans GW, Mugglestone MA, and Miller PCH (1996) A technique for mapping the spatial distribution of *Elymus repens* L. with estimates of the potential reduction in herbicide usage from patch spraying. *Weed Research*, 36, 283-92.
- Rew LJ, Froud-Williams RJ, and Boatman ND (1996) Dissemination of *Bromus sterilis* and *Anthriscus sylvestris* within arable field margins. *Agriculture, Ecosystems & Environment*, 59, 107-14.
- Rew LJ, Froud-Williams RJ, and Boatman ND (1995) The effect of nitrogen, plant density and competition between *Bromus sterilis* and three perennial grasses; the implications for boundary strip management. *Weed Research*, 35, 363-68.
- Rew LJ, Theaker AJ, Froud-Williams RJ, and Boatman ND (1992) Nitrogen fertiliser misplacement and field boundaries. *Aspects of Applied Biology - Nitrate and farming systems*, 30, 203-6.
- Rew LJ, Froud-Williams RJ, and Boatman ND (1992) Implications of field margin management on the ecology of *Bromus sterilis*. *Aspects of Applied Biology - Vegetation management in forestry, amenity and conservation areas*, 29, 257-63.
- Dover JW, Clarke SA, and Rew L (1992) Habitats and movement patterns of Satyrid butterflies (Lepidoptera: Satyridae) on arable farmland. *Entomologist's Gazette*, 43, 29-44.

REVIEWED

Books:

- Johnson M, Rew LJ, Maxwell BD, and Sutherland S (2006) The Role of Wildfire in the Establishment and Range Expansion of Nonnative Plant Species into Natural Areas. Center for Invasive Plant Management Publication. P 51.
- Rew LJ, and Pokorny ML (2006) Inventory and survey methods for nonindigenous plant species. Montana State University Extension. P.75.

Book Chapters:

- Dorsey B, and Rew LJ (2017) Relative risk and variables associated with bear and ungulate mortalities along a railroad in the Canadian Rocky Mountains. Pp 135-155. In "Railroad Ecology", (eds) Borda-de-Água L., Barrientos R., Beja P., Pereira H., Springer, Cham, doi.org/10.1007/978-3-319-57496-7_9.
- Dorsey B, Olsson M and Rew L (2015) Ecological effects of railways on wildlife. (2015) In: Handbook of Road Ecology, (eds) van der Ree, R., Smith, D. J., and Grilo, C. John Wiley & Sons, Oxford. pp. 219-227.
- Kueffer C, McDougall K, Alexander J, Daehler C, Edwards P, Haider S, Milbau A, Parks C, Pauchard A, Reshi Z, Rew L, Schroder M and Seipel T (2014) Chapter 6: Plant invasions into mountain protected areas: assessment, prevention and control and multiple scales. pp *In* Foxcroft L,

- Richardson D, Pyšek P, and Genovesi P (Eds) *Plant Invasions In Protected Areas: Patterns, Problems And Challenges*. Invading Nature – Springer Series in Invasion Biology 7, pp 89-113.
- Maxwell BD and LJ Rew (2010) If You Can't Measure It, You Can't Manage It: An Ecological Approach to Weed Management. Chapter 8. pp. 113-126. In J. Johnson (Ed) *Knowing Yellowstone: Science in America's First National Park*. Taylor Trade Publishing, Boulder, CO.
- Rice PM, McPherson G, and Rew L (2008) Fire and nonnative invasive plants in the interior west bioregion. In: *Wildland Fire in Ecosystems: Fire and Nonnative Invasive Plants*. Eds. K. Zouhar, J. Kapler Smith, S. Sutherland, and M.L. Brooks. Gen. Tech. Rep. RMRS-GTR-42-volume 6. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. Pp.141-173.
- Rew LJ, and Maxwell BD (2006). Stratified random sampling method. In: *Inventory and survey methods for nonindigenous plant species*. Eds. L.J. Rew, and M. Pokorny. (Montana State University Extension). pp49-55.
- Rew LJ, Medd RW, and Farquharson RJ (1998). The scope for precision weed management in on-farm decision making. In: *Precision Weed Management in Crops and Pastures*. Eds. R.W. Medd, and J.E. Pratley, (R.G., and F.J. Richardson, Melbourne). pp. 81-91.
- Rew LJ, and Cousens RD (1998) What do we know about the spatial distribution of arable weeds? In: *Precision Weed Management in Crops and Pastures*. Eds. R.W. Medd, and E. Pratley, (R.G., and F.J. Richardson, Melbourne). pp. 20-6.

UNREVIEWED UNLESS STATED

Conference Papers and Abstracts

- Metier EP, Lehnhoff EA, Mangold J, Rinella MJ and Rew LJ (2018) Evaluating the efficacy of four graminicides on *Bromus tectorum* and *Bromus japonicus*. *Proceedings of the Western Weed Science Society of America*. Anaheim, California, March 13-15, 2018
- Metier EP, Rew LJ and Rinella MJ (2018) Using Herbicides and Seeding to Restore Sagebrush to Brome-invaded Landscapes of the Northern Great Plains. *Society of Range Management Meeting*, Sparks, NV. January 28 – February 2, 2018.
- Rew LJ (2017) Climate change and invasive grasses. *Proceedings of the Western Weed Science Society*, Coeur d'Alene, Idaho, March 13-16, 2017.
- Rew LJ, Larson C and Lehnhoff EA (2017) Differing impacts of CO₂ and drought due to competitive interactions between annual and perennial grass. *Proceedings of the Weed Science Society of America*. Tuscon, Arizona, February 6-9, 2017.
- Rew LJ, Mangold J and Lehnhoff, EA. Integrated management of *Bromus tectorum* (cheatgrass) with sheep and herbicide. *Proceedings of the Weed Science Society of America*. Tuscon, Arizona, February 6-9, 2017.
- Rew LJ, Lehnhoff E, Seipel T, Mangold J and Hatfield P (2017) Integrated weed management of dense cheatgrass on productive rangeland. *Montana Weed Control Association Annual Meeting*, Great Falls, January 8-11, 2017.
- Rew LJ, Larson, C and Lehnhoff, EA (2016) The role of climate and fire on plant composition in the currently cooler, moister regions of the sagebrush biome. *Proceedings of the Ecological Society of America*, Fort Lauderdale, FL, August 11, 2016.
- Lehnhoff EA, Maxwell, BD, Taylor, K and Rew, LJ (2016) Plant community resistance and resilience to local scale perturbations. *Proceedings of the Ecological Society of America*,

- Fort Lauderdale, FL, August 11, 2016.
- Lehnhoff EA, Seipel T and Rew LJ (2016) Fire and fire management impacts on cheatgrass (*Bromus tectorum*) in Montana. *Proceeding of the 69th Meeting of the Western Society of Weed Science*, Albuquerque, NM, March 7-10, 2016.
- Rew LJ, Larson C and Lehnhoff EA (2016) Plant community interactions are stronger drivers than climate in cheatgrass invasion of Montana's sagebrush steppe. *Proceeding of the 56th Meeting of the Weed Science Society of America*, Puerto Rico, February 8-11, 2016.
- Lehnhoff EA, Seipel T, Mangold K, Regan D and Rew LJ (2016) Integrated management of *Bromus tectorum* (cheatgrass) with sheep and herbicide. *Proceeding of the 56th Meeting of the Weed Science Society of America*, Puerto Rico, February 8-11, 2016.
- Seipel T, Lehnhoff E, Mangold J, Menalled F, Rew LJ and Larson, C. (2016) Cheatgrass: Will there be more of it, how can we control it? Montana Weed Control Association Annual Meeting, Great Falls, January 8-11, 2016.
- Lehnhoff EA, Rew L, Seipel T, Taylor K and Maxwell B (2015) Fire does not promote cheatgrass invasion in the northern sagebrush steppe of Montana. USA. *EMAPi 2015*, September 20-24th 2015, Waikoloa, Hawaii.
- Rew LJ, Bridges M, Lehnhoff EA and Maxwell BD (2015) Variable non-native species impact across occurrence gradient offers possibility for site specific management. *EMAPi 2015*, September 20-24th 2015, Waikoloa, Hawaii.
- Balbach HE, Rew LJ, Brummer T, Pollnac F and Fleming J (2015) Reducing risk in invasive species management. *American Soil Society Meeting*, November 6-9th 2015, Phoenix, Arizona, USA. Poster presentation.
- Balbach HE, Rew LJ, Brummer T, Pollnac F and Fleming J (2015) Reducing risk in invasive species management planning. *100th Ecological Society of America Annual Meeting*, August 9-14th 2015, Baltimore, Maryland, USA.
- Balbach HE, Rew LJ, Brummer T, Pollnac F and Fleming J (2014) Risk reduction in invasive species management. *Joint British Ecological Society and Société Française d'Ecologie Annual Meeting*, December 9-2th 2014, Grand Palais, Lille, France. Poster presentation.
- Rew LJ and Pollnac FW (2014) Invasiveness of Dalmatian toadflax in mountain ecosystems. *Western Weed Science Society*, March 11-13, 2014, Colorado Springs, CO. [Invited Symposium Speaker].
- Lehnhoff E, Maxwell BD, and Rew LJ (2014) Plant community resilience to disturbance and *Linaria vulgaris* invasion across an environmental gradient. *Weed Science Society of America*, February 4-6, 2014, Vancouver, Canada.
- Maxwell BD, Taylor K, Brummer TJ, Rew LJ, Lavin M, Pauchard A, Peltzer D, Whitlock C, McWethy D, and Nuñez M (2014) Past and future role of wildfire, humans and climate in nonindigenous plant invasions. *Weed Science Society of America*, February 4-6, 2014, Vancouver, Canada.
- Rew LJ, Seipel T, Pollnac FW, Naylor BJ, Parks CG, and Andersen K (2014) Plant invasions in mountain ecosystems of the Rockies. *Weed Science Society of America*, February 4-6, 2014, Vancouver, Canada. [Invited].
- Rew LJ, Bridges M, Brummer TJ, Lehnhoff EA, Pollnac FW, Maxwell BD, and Skurski T (2014) Dissecting the drivers of local plant invasions: disturbance, environment and propagule pressure. *Weed Science Society of America*, February 4-6, 2014, Vancouver, Canada.
- Seipel T, Lehnhoff E, Lavin M, Maxwell BD, and Rew LJ (2014) Throwing the baby out with

- the bath water: the effect of noxious weed control on plant diversity in the sagebrush steppe. *Weed Science Society of America*, February 4-6, 2014, Vancouver, Canada. Poster presentation.
- Seipel T, Lehnhoff E, and Rew LJ (2014) The abundance of *Bromus tectorum* in response to wildfire and fire suppression. *Weed Science Society of America*, February 4-6, 2014, Vancouver, Canada.
- Taylor K, Brummer T, Rew LJ, Lavin M, and Maxwell BD (2014) Climate drives *Bromus tectorum* positive feedback with fire. *Weed Science Society of America*, February 4-6, 2014, Vancouver, Canada. Poster presentation.
- Lawrence P, Rew LJ and Belsky J (2013) Resilience of Montana dryland agroecosystems to economic and climatic change. *Montana EPSCoR/IoE Summit Annual Science Meeting*. Abstracts p. 27. Helena, MT Aug. 22-23, 2013.
- Taylor K, Brummer T, Rew LJ, Lavin M and Maxwell BD (2013) Climate drives *Bromus tectorum* positive feedback with fire. *Montana EPSCoR/IoE Summit Annual Science Meeting*. Abstracts p. 36. Helena, MT Aug. 22-23, 2013.
- Rew LJ, Lawrence P, Maxwell B, Brummer T and Pollnac F (2013) Prioritizing weed populations for management using your own data. *Montana Weed Control Association*, January 16-17th 2013, Great Falls, MT. [Invited]
- Taylor K, Rew LJ, Pauchard A and Maxwell BF (2013) Lodgepole pine invasions in Chilean Patagonia. *Montana Weed Control Association*, January 16-17th 2013, Great Falls, MT. [Invited]
- Lehnhoff EA, Rew LJ, Hohmann MG, Lawrence PG and Maxwell BD (2012) Improving non-indigenous plant species management through better monitoring. Poster Presentation. *The Ecological Society of America Annual Meeting*, August 8, 2012, Portland, Oregon. <http://dx.doi.org/10.1890/2012.abstracts>.
- Maxwell BD, Brummer T, Lawrence P, Lehnhoff EA, Rotella J and Rew LJ (2012) An empirical assessment of a *Linaria dalmatica* invasion in Yellowstone National Park. Poster Presentation. *The Ecological Society of America Annual Meeting*, August 8, 2012, Portland, Oregon. <http://dx.doi.org/10.1890/2012.abstracts>.
- Lawrence P.G., Barroso J., Maxwell, B.D., Bekkerman, A., Jones, C., Rew, L.J. (2012) Effects of agroecological optimization and decision-making on threshold behavior. *The Ecological Society of America Annual Meeting*, August 8, 2012, Portland, Oregon. <http://dx.doi.org/10.1890/2012.abstracts>.
- Rew L.J., Brummer, T., Lehnhoff, E.A., Maxwell, B.D., Pollnac, F., and Skurski, T.C. (2012) Evaluating non-native plant population dynamics along environmental gradients. *The Ecological Society of America Annual Meeting*, August 8, 2012, Portland, Oregon. <http://dx.doi.org/10.1890/2012.abstracts>.
- Pollnac F., Lavin, M., Maxwell, B.D., Taper, M.L., and Rew, L.J. (2012) Climbing high: probability of occurrence and patterns of invasion of *Linaria dalmatica* along an elevational gradient. *The Ecological Society of America Annual Meeting*, August 8, 2012, Portland, Oregon. <http://dx.doi.org/10.1890/2012.abstracts>.
- Rew LJ, Taylor K, Brummer T, Pollnac F and Balbach HE (2012) Seed movement by vehicles: how do we use this information to inform management? *11th Biennial Scientific Conference on the Greater Yellowstone Ecosystem – Great Yellowstone in transition: linking science and decision making*. October 8-10th, 2012, Mammoth Hot Springs, WY.
- Maxwell BD, Rew LJ, Bridges M, Skurski T, Brummer T, Lawrence P, Lehnhoff E and Rotella J

- (2012) Translating survey and monitoring data into management decisions: the case of invasive plant species in the GYE. *11th Biennial Scientific Conference on the Greater Yellowstone Ecosystem – Greater Yellowstone in transition: linking science and decision making*. October 8-10th, 2012, Mammoth Hot Springs, WY.
- Pollnac F, Lavin M, Maxwell BD, Taper ML and Rew LJ (2012) Non-native plant species in mountain systems: a case study of *Linaria dalmatICA*. *Weed Science Society of America*, February 7, 2012, Waikoloa, HI.
- Dorsey B, Rew L, Maxwell B, Clevenger T and Creel S (2011) Factors affecting bear mortality along the Canadian Pacific Railroad through Banff and Yoho National Parks. *Montana Society for Conservation Biology 4th Annual Research Symposium*, Nov 17-18 2011, Missoula, MT.
- Balbach HE, Rew LJ, Brummer T and Pollnac F (2011) Army and DOD approaches to managing spread of invasive species, *XVIII International Botanical Congress*, July 23-30 2011, Melbourne, Australia. Poster presentation.
- Rew LJ, Maxwell BD, Antle J and DiTomaso J (2011) A decision support prioritization framework for non-indigenous plant population management. *USDA-National Research Institute Principal Investigators Symposium*, Washington DC, July 19-20th 2011.
- Backus VM, Irvine K, Maxwell BD, Rew LJ, and Hohmann MG. (2011). Adaptive sampling methods for surveying and mapping nonindigenous invasive plant species. *National military fish and wildlife association 76th North American Wildlife and Natural Resources Conference*, Kansas City, MI. March 14-19th 2011.
- Skurski, TS, Maxwell, BD, Rew, LJ (2011) Impacts of exotic plants in natural systems: methods and findings of experimental research. “Ecological Effects of Invasive Plants” Symposium, *Western Society of Weed Science*. Spokane, WA, March 11, 2011. [Invited]
- Rew L, Wing A, Taylor K, and Maxwell BD (2011) Secondary seed dispersal by vehicles: simulating colonization on a heterogeneous landscape. *Weed Science Society of America, 51st Meeting*, February 7 – 20th 2011, Portland, Washington. 215.
- Lawrence P, Brummer T, Maxwell BD, Rew LJ (2011) Prioritizing weed control: why and how to create predictive maps. *Montana Weed Control Association Annual Meeting*. January 11th 2011, Great Falls, MT.
- Rew LJ, Taylor, K, Wing A, Pollnac F, Brummer T, and Halbach H (2011) Seed movement by vehicles: how many, how far and under what conditions? *Montana Weed Control Association Annual Meeting*. January 11th 2011, Great Falls, MT.
- Rew L, Pollnac F (2010) Seed dispersal by vehicles.
<http://archive.constantcontact.com/fs081/1102918945216/archive/1103024560170.html>
- Maxwell B, Rew L, and Brummer T (2010) Predicting the metapopulation dynamics of non-native plant species on the Idaho National Laboratory Site. *Idaho Section Annual Symposium “Alternative Management Strategies in Big Sagebrush Steppe: Perspectives, Opportunities and Supporting Evidence”*, Nov 10-12th 2010, Idaho Falls, ID.
- Rew LJ, Wing A, Pollnac F, Brummer T & Balbach H (2010) Vehicle transport of seed and soil under varying conditions and distances. *SERDP 2010 Partners in Environmental Technology Symposium and Technical Workshop*, 30-2 December 2010, Washington DC.
- Wing A, Taylor K, and Rew LJ (2010) Vehicles as a vector of plant seed dispersal: quantifying seed loss over distance. *2nd Conference on Invasive Species in Natural Areas*, October 25-29, 2010, Coeur D’Alene, ID.
- Lawrence P, Maxwell BD, and Rew LJ (2010) A Web-based Application for Non-Indigenous

- Species Prediction and Management. *2nd Conference on Invasive Species in Natural Areas*, October 25-29, 2010, Coeur D'Alene, ID.
- Maxwell BD, Rew LJ, Rotella J, Brummer T, and Lawrence P (2010) Predicting invasion of *Linaria dalmatica* in the Northern Range of Yellowstone National Park. *2nd Conference on Invasive Species in Natural Areas*, October 25-29, 2010, Coeur D'Alene, ID.
- Brummer T, Maxwell BD, and Rew LJ (2010) Using plant survey data: detection accuracy and implications for habitat modeling. *2nd Conference on Invasive Species in Natural Areas*, October 25-29, 2010, Coeur D'Alene, ID.
- Pollnac F, Lavin M, Maxwell B and Rew, L (2010) Factors affecting the current range limits of *Linaria dalmatica* in a mountainous area of the Northwest United States. *Global Change in the World's Mountains Conference*, 26-30 September 2010, Perth, Scotland, UK.
- Parks CG and Rew LJ (2010) Mountain Invasion Research Network (MIREN). *Global Change in the World's Mountains Conference*, 26-30 September 2010, Perth, Scotland, UK. [Invited and Rew Presented – Rew Session Co-Chair].
- Seipel T, Kueffer C, Alexander J, Daehler C, Edwards PJ, Naylor B, Parks C, Pauchard A, Rew LJ, Arevalo RJ, Cavieres L, Dietz H, Jakobs G, McDougall K, Otto R and Walsh N (2010) Biogeographic comparisons of non-native plant invasions in mountains. *Global Change in the World's Mountains Conference*, 26-30 September 2010, Perth, Scotland, UK.
- Pauchard A, McDougall K, Dietz S, Kueffer C and MIREN consortium: Alexander J, Arevalo J, Cavieres L, Daehler C, Dietz H, Edwards PJ, Jakobs G, Naylor B, Otto R, Parks CG, Pollnac F, Rew L, Seipel T, Walsh N. (2010) *Global Change in the World's Mountains Conference*, 26-30 September 2010, Perth, Scotland, UK. Poster presentation.
- Rew LJ, Maxwell BD, Wing A, Pollnac F. (2010) Quantifying and predicting seed dispersal from vehicles. Global database of potentially invasive non-native plants in mountains. *Global Change in the World's Mountains Conference*, 26-30 September 2010, Perth, Scotland, UK. Poster presentation.
- Jay SC, Lawrence RL, Repasky KS, and Rew LJ (2010) Detection of leafy spurge using hyperspectral-spatial-temporal imagery. *Proceedings of the 2010 IEEE International Geoscience and Remote Sensing Symposium*, 25-30 July 2010, Honolulu, Hawaii.
- Lawrence P, Maxwell BD, Rew LJ (2010) A Web-based Application for Predicting Weed Occurrence. *Intermountain GIS Conference*. April 19-23 2010, Bozeman, MT.
- Backus VM, Rew LJ and Maxwell BD, (2010) GIS tools for successful implementation of adaptive sampling designs for nonindigenous plant species surveying and mapping. *Intermountain GIS Conference*, April 19-23 2010, Bozeman, MT.
- Rew L (2010) Prioritizing weed management: mapping, monitoring and modeling in agricultural to wildland systems. *Society for Range Management and Weed Science Society of America*, "Working landscapes providing for the future", February 7-11, 2010, Denver, CO. p56 [invited].
- Rew L, Taper ML, Pollnac F, Brummer T, and Balbach H (2010) Dispersal of plant propagules by vehicles. *Society for Range Management and Weed Science Society of America*, "Working landscapes providing for the future", February 7-11 2010, Denver, CO. p80.
- Skurski T, Rew LJ, and Maxwell BD (2010) Assessing invasiveness of non-indigenous plant populations: a post-establishment, empirically-based methodology. *Society for Range Management and Weed Science Society of America*, "Working landscapes providing for the future", February 7-11, 2010, Denver, CO. p80.

- Maxwell BD and Rew L (2010) The interaction of processes that govern invasions. *Society for Range Management and Weed Science Society of America*, "Working landscapes providing for the future", February 7-11, 2010, Denver, CO. p80.
- Bridges M, Maxwell BD, and Rew LJ (2010) The role of current and historical land use in predicting invasive plant habitat suitability. *Society for Range Management and Weed Science Society of America*, "Working landscapes providing for the future", February 7-11, 2010, Denver, CO. p80.
- Pollnac F, Rew L, Maxwell B, and Lavin M (2010) Life along an elevation gradient: the effects of elevation on the invasiveness of *Linaria dalmatica*. *Society for Range Management and Weed Science Society of America*, "Working landscapes providing for the future", February 7-11, 2010, Denver, CO. p67. Poster presentation.
- Brummer T, Maxwell BD, Keith B, and Rew L (2010) Are plant invasions episodic? *Society for Range Management and Weed Science Society of America*, "Working landscapes providing for the future", February 7-11, 2010, Denver, CO. p68. Poster presentation.
- Keith B, Brummer T, Dyer W, Maxwell B, and Rew LJ (2010) Deciphering dispersal patterns of Dalmatian toadflax. *Society for Range Management and Weed Science Society of America*, "Working landscapes providing for the future", February 7-11, 2010, Denver, CO. p68. Poster presentation.
- Herstand M, Rew L, and Maxwell BD (2010) Assessing invasiveness of non-indigenous plant populations: a post-establishment, empirically-based methodology. *Society for Range Management and Weed Science Society of America*, "Working landscapes providing for the future", February 7-11, 2010, Denver, CO. p68. Poster presentation.
- Lehnhoff E, Menalled F, and Rew L (2010) Hydrologic factors influencing establishment of *Tamarix* spp. in Montana. *Society for Range Management and Weed Science Society of America*, "Working landscapes providing for the future", February 7-11, 2010, Denver, CO. p69. Poster presentation.
- Backus V, Rew L, and Maxwell B (2010) Adaptive cluster and adaptive web sampling designs for nonindigenous plant species surveying: a comparison of designs and a discussion of technological tools for successful field implementation. *Society for Range Management and Weed Science Society of America*, "Working landscapes providing for the future", February 7-11, 2010, Denver, CO. p69. Poster presentation.
- Balbach H, Rew LJ, Pollnac F, and Brummer T (2010) Army and DoD approaches to managing spread of invasive species. *Armed Forces Pest Management Board*. 8-12th February, 2010, Jacksonville, FL. [Invited].
- Rew LJ, Brummer T, and Pollnac F (2010) Vehicles as vectors of seed dispersal. *Montana Weed Control Association Annual Meeting*. January 13th 2010, Missoula, MT.
- Skurski T, Rew LJ, Maxwell BD and Lehnhoff E (2010) Quantifying invasiveness as part of a weed management prioritization framework. *Montana Weed Control Association Annual Meeting*. January 13th 2010, Missoula, MT.
- Rew LJ, Taper ML, Pollnac F, Brummer T, and Balbach H (2009) Quantifying plant propagule transport by vehicle type. *SERDP 2009 Partners in Environmental Technology Symposium and Technical Workshop*. 2 December 2009, Washington DC. Poster presentation.
- Balbach H, Rew L, and Fleming J (2009) Army and DoD focus in managing the spread of invasive species. *American Society of Agronomy*, 1-5 November, 2009, Pittsburgh, PA.

- Howard, H, Balbach H, Rew LJ, Ayers P and Anderson AB (2009) Tracking Military vehicles to better understand invasive species spread. *American Society of Agronomy*, Pittsburgh, PA. 1-5 November, 2009.
- Skurski T, Maxwell, BD, and Rew LJ (2009) Quantifying changes in density and spatial extent of multiple *Centaurea maculosa* populations. *The Ecological Society of America Conference* August 2-7, 2009 Albuquerque, New Mexico. Poster Presentation.
- Bridges M, Rew LJ, Rotella J, and Maxwell BD (2009) Evaluating the relationship between invasive plant metapopulation growth rate and management efficacy using a modified incidence function model. Poster Presentation. *The Ecological Society of America Conference* August 2-7, 2009 Albuquerque, New Mexico.
- Dougher T, and Rew LJ (2009) Native grass sod suitability for transportation and competition with resident weeds. *American Society for Horticulture Science*, July 25-28, 2009, St. Louis, Missouri.
- Skurski T, Maxwell, BD, and Rew LJ (2009) Quantifying plant community impacts of *Centaurea biebersteinii* and *Bromus tectorum*. *Western Society of Weed Science*, March 10-12, 2009, Albuquerque, New Mexico. p. 19
- Skurski T, Maxwell, BD, and Rew LJ (2009) Assessing plant community and environmental covariates of *Bromus tectorum* presence. *Western Society of Weed Science*, March 10-12, 2009, Albuquerque, New Mexico. p. 6
- Balbach H, Rew L, and Fleming J (2009) Army and DoD invasive species management. *62nd Annual Meeting of the Society for Range Management*, Albuquerque, NM. 8-12 February, 2009.
- Lehnhoff, E., Rew, L. and Maxwell, B. Competing Weed Management Strategies: Early Detection – Rapid Response vs. Surveying, Population Monitoring and Prioritization. *Wyoming Integrated Pest Management Conference*. 3 February, 2009. Cody, WY.
- Rew LJ, Pollnac F, Brummer T, and Balbach H (2008) Evaluating plant propagule richness and abundance when transported on different vehicle types. *SERDP 2008 Partners in Environmental Technology Symposium and Technical Workshop*. 2 December 2008, Washington DC. Poster presentation.
- Howard HR, Rew LJ, Ayers PD, Balbach HE, and Anderson AB (2008) Tracking Military Vehicles to Better Understand Invasive Plant Species Spread. *ISTVS (International Society for Terrain Vehicle Systems)*. Torino Italy. 25-28 November, 2008. [Peer reviewed].
- Balbach H, Rew L, and Fleming J (2008) Evaluating the potential for vehicle transport of propagules of invasive species. *Army Sustainable Range Program*. San Antonio, TX. 3 July, 2008.
- Brummer T, Maxwell BD, and Rew LJ (2008) Characterizing invasion of *Linaria dalmatica* at the population and metapopulation scale. *5th International Weed Science Congress, Vancouver, Canada*. 20-25 June, 2008. p 36. Poster Presentation.
- Lehnhoff E, Rew LJ, and Maxwell BD (2008) Plant community response to disturbance in the presence of the non-native, *Linaria vulgaris* (Yellow toadflax). *5th International Weed Science Congress, Vancouver, Canada*. 20-25 June, 2008. p 35.
- Maxwell B, Rotella J, Lawrence P, and Rew L (2008) Empirical characterization of nonindigenous species metapopulation dynamics in forest ecosystems. *5th International Weed Science Congress, Vancouver, Canada*. 20-25 June, 2008. p 106. [Invited]
- Pollnac F, Seipel T, Repath C, and Rew L (2008) Effects of abiotic and biotic factors on the

- occurrence and establishment of non-indigenous plant species. *5th International Weed Science Congress*, Vancouver, Canada. 20-25 June, 2008. p 36. Poster Presentation.
- Stark J, Rew L, Zabinski C, and Dougher T (2008) Weed suppression and drought tolerance of multispecies sod for roadside revegetation. *5th International Weed Science Congress*, Vancouver, Canada. 20-25 June, 2008. p 98.
- Skurski T, Maxwell BD, and Rew LJ (2008) Quantifying non-indigenous plant impacts in natural areas to aid with management prioritization. *5th International Weed Science Congress*, Vancouver, Canada. 20-25 June, 2008. p 38. Poster Presentation.
- Rew LJ, and Balbach H (2008) Evaluating the role of vehicles in the transportation and spread of plant propagules. *5th International Weed Science Congress*, Vancouver, Canada. 20-25 June, 2008. p 53. [Invited]
- Rew LJ, Balbach H, Fleming J, Taylor R, and Gonzales R (2008) Evaluating plant propagule spread by vehicles, and the effectiveness of vehicle wash units used to contain them. *WSSA Abstracts 48*, Chicago, IL. 4-7 Feb. 2008. p 20. Poster Presentation.
- Maxwell BD, Rew LJ, and Lehnhoff E (2008) Is invasive plant monitoring worth the effort? *WSSA Abstracts 48*, Chicago, IL. 4-7 Feb. 2008. p 39. [Invited].
- Rew LJ, Wiles L, and Shaw D (2008) From maps to knowledge to management: understanding, predicting and managing the invasion process can be improved by using geographic information systems. *WSSA Abstracts 48*, Chicago, IL. 4-7 Feb. 2008. p 32. Co-organizer of Symposium. [Invited].
- Brummer T, and Rew LJ (2008) Determining the pattern of spread within a population of *Linaria dalmatica*. *Invasive species in natural areas: A conference on impacts and management*. Missoula, MT. 12-14 Feb. 2008. p 9.
- Dougher FL, Rew LJ, and Maxwell BD (2008) Distribution of non-native invasive plant species in the northern range of Yellowstone National Park. *Invasive species in natural areas: A conference on impacts and management*. Missoula, MT. 12-14 Feb. 2008. p 12.
- Lehnhoff EA, Maxwell BD, and Rew LJ (2008) Herbicide use for restoration of *Linaria vulgaris* infested sites: A cautionary tale. *Invasive species in natural areas: A conference on impacts and management*. Missoula, MT. 12-14 Feb. 2008. p 16.
- Maxwell B, Rotella J, Lawrence P, and Rew LJ (2008) Does population monitoring improve invasive plant species management? *Invasive species in natural areas: A conference on impacts and management*. Missoula, MT. 12-14 Feb. 2008. p 18.
- Stark JG, Zabinski CA, Dougher TAO, and Rew LJ (2008) Establishment success of multispecies sod along a moisture gradient. *Invasive species in natural areas: A conference on impacts and management*. Missoula, MT. 12-14 Feb. 2008. p 22.
- Rew LJ, Cohn T, Williams C, Keith B, and Swanson E (2008) Science and Society Fellows: A GK-12 program at Montana State University. *Annual GK-12 Meeting of the National Science Foundation*, Washington DC, 29-1 March, 2008.
- Shi X, Pokorny M, Dougher T, Rew L, Dollhopf D, Brown D, and Broadbent J (2008) Reinforced Native Sod Grass for Biostrips, Bioswales, and Sediment Control. *International Erosion Control Association (IECA) Conference*, Orlando, Florida, 19-22 Feb. 2008.
- Lehnhoff EA, Maxwell BD, and Rew LJ (2007) Effects of disturbance and environment on yellow toadflax (*Linaria vulgaris*). *The Ecological Society of America Annual Conference*, San Jose, CA, August 2007.

- Lehnhoff EA, Becker M, and Rew LJ (2007) Across the river and into the trees: engaging rural K-8 student through ecological research. *The Ecological Society of America Annual Conference*, San Jose, CA, August 2007.
- Rew LJ, Balbach H, Fleming J, Taylor R, and Gonzales R (2007) Preventing the spread of invasive species: evaluating plant propagule transport by vehicles” *SERDP 2007 Partners in Environmental Technology Symposium and Technical Workshop*, November 27th 2007, Washington DC. Poster presentation.
- Rew LJ, Lehnhoff E, and Maxwell B (2007) Prioritizing non-indigenous species management using a survey, monitoring and modeling framework. *Conference of the Plant Canada - CWSS / CBA symposium Ecology and Invasive Species*. June 2007. [Invited].
- Rew LJ, and Maxwell B (2007) Non-indigenous species and community richness, diversity and stability: a case study with leafy spurge (*Euphorbia esula*). *WSSA Abstracts 47*, San Antonio, TX. Feb. 2007, p 26. Poster Presentation.
- Lehnhoff E, Maxwell BD, and Rew LJ (2007). Disturbance size and propagule pressure influence colonization success of yellow toadflax (*Linaria vulgaris*). *WSSA Abstracts 47*, San Antonio, TX. Feb. 2007, p 57.
- Rew LJ, Lehnhoff E, Christiansen D, Becker M, Cohn T, Segal K, Lutz E, Shoutis L, and Swanson E (2007) GK-12 Science and Society in the Greater Yellowstone Ecosystem. *Annual GK-12 Meeting of the National Science Foundation*, Washington DC, March 2007.
- Rew LJ, and Maxwell B (2006) Predicting occurrence, prioritizing monitoring and improving management efficacy. *Western Society of Weed Science Reno, NV*, March 14. p 68. [Invited].
- Pollnac F, Maxwell B, Menalled F, and Rew L (2006) Spatial distribution of weeds in conventional and organic spring wheat agroecosystems. *The Ecological Society of America Annual Conference*, Memphis, TN, August 8 2006.
- Lehnhoff E, Rew L, and Maxwell B (2006) A method for modeling and predicting plant invasiveness. *Western Society of Weed Science Reno, NV*, March 14. p 20.
- Rew LJ, and Maxwell BD (2006) Predicting occurrence, prioritizing monitoring and improving management efficiency. *Western Society of Weed Science Reno, NV*, March 14. p 24.
- Stott L, Rew L, and Dougher T (2006) Evaluation of California native grasses for revegetation sod. *Horticultural Science* 41(4):1037-8.
- Aspinall R, Rew LJ, and Maxwell BD (2005) Modelling contagion of non-indigenous plant species at the landscape level: an example from the northern range of Yellowstone National Park. *The Ecological Society of America Conference* August 9-12, 2005 Montreal, Canada. p 68.
- Rew LJ, Maxwell BD, Lehnhoff E, and Repath C (2005) Detecting spatial change in non-indigenous plant populations. *The Ecological Society of America Conference* August 9-12, 2005 Montreal, Canada. p 68.
- Johnson M, Rew LJ, Maxwell BD, and Menalled F (2005) Framework for integrating non-indigenous plant, insect and pathogen species management with forest management activities planning. Poster Presentation. *The Ecological Society of America Conference* August 9-12, 2005 Montreal, Canada. p 126.
- Rew LJ, Maxwell BD, Taper ML, and Aspinall R (2005) Environmental suitability patterns and scale effects on non-indigenous species dispersion. *WSSA Abstracts 45*, Honolulu, HA. Feb. 2005, p 37. Poster Presentation.
- Maxwell BD, and Rew LJ (2005) Detecting invasiveness of invasive plant species. (2005) *WSSA*

- Abstracts 45*, Honolulu, HA. Feb. 2005, p 60. Poster Presentation.
- Maxwell BD, and Rew LJ (2005) Quantifying invasiveness of plant populations. *Western Society of Weed Science*, Vancouver, Canada, March 2005. p 7. Poster Presentation.
- Johnson M, Rew LJ, Maxwell BD, Menalled F, Grey W, Kelty M, and McCullough D (2005) Synthesis of the effects of forest health restoration activities on non-indigenous plant species. *Western Society of Weed Science*, Vancouver, Canada, March 2005. p 7. Poster Presentation.
- Lehnhoff EA, Rew LJ, and Maxwell BD (2005) Effects of disturbance on the invasion potential of yellow toadflax. *Western Society of Weed Science*, Vancouver, Canada, March 2005. p 15.
- Bauer B, Maxwell BD, Rew LJ, Weaver T, Zabinski C, and Markin G (2005) Population dynamics of tansy ragwort (*Senecio jacobaea*) with and without biological control. *Western Society of Weed Science*, Vancouver, Canada, March 2005. p 16.
- Rew LJ, Johnson M, and Maxwell BD (2005) Wildfire management activities and the potential for establishment and spread of nonindigenous plant species. *Western Society of Weed Science*, Vancouver, Canada, March 2005. p 16.
- Dougher FL, Rew LJ, and Maxwell BD (2005) Scale effects in the evaluation of the spatial distribution of non-native species in wildland ecosystems. *Western Society of Weed Science*, Vancouver, Canada, March 2005. p 21.
- Maxwell BD, and Rew LJ (2005) Plant invasions: how should we react? *Crown of the Continents Annual Meeting*, Kalispell, MT. [Invited].
- Johnson M, Rew L, Maxwell B, and Sutherland S (2004) Knowledge synthesis of wildfire on the occurrence and expansion of non-native plant species distribution in natural areas. *Montana Academy of Sciences: Invasive Species Symposium* April 16, 2004 Billings, MT.
- Repath C, Rew L, and Maxwell B (2004) Intensive monitoring of *Linaria vulgaris* at the patch scale. *Montana Academy of Sciences: Invasive Species Symposium* April 16, 2004 Billings, MT.
- Rew LJ, and Maxwell BD (2004) Sampling to understand non-indigenous plant species occurrence and develop probability maps of occurrence. *Montana Academy of Sciences: Invasive Species Symposium* April 16, 2004 Billings, MT.
- Maxwell B, and Rew L (2004) Detecting change in invasive plant populations for prioritization of management. *Montana Academy of Sciences: Invasive Species Symposium* April 16, 2004, Billings, MT.
- Johnson M, Rew L, Maxwell B, and Sutherland S (2004) Knowledge synthesis of non-native plant responses to wildfire in natural areas of the western United States. *The Ecological Society of America Conference* August 1-6, 2004 Portland, OR. p63. Poster Presentation.
- Maxwell B, Hulting A, Repath C, and Rew L (2004) Linking spatial and temporal dynamics to estimate invasiveness of non-indigenous plant populations. *The Ecological Society of America Conference* August 1-6, 2004 Portland, OR. p88.
- Rew LJ, and Maxwell BD (2004) Sampling to understand non-indigenous plant species occurrence and develop probability maps of occurrence. *The Ecological Society of America Conference* August 1-6, 2004 Portland, OR. p25. Poster Presentation.
- Dougher FL, and Rew LJ (2004) The potential of remote sensing applications for managing weeds in agricultural systems. *Third Annual PARA Conference*, Bozeman, MT. January 30, 2004.
- Dougher FL, Rew LJ, and Lawrence RL (2004) Spatial, spectral, and temporal resolution:

- evaluating various types of imagery for site-specific weed management. *Seventh International Conference on Precision Agriculture and Other Precision Resources Management*, Minneapolis, MN. July 27, 2004.
- Dougher FL, Rew LJ, and Lawrence RL (2004) Using multi-temporal data for identifying wild oat in cereal crops. *Fourth Annual PARA Conference*, Bozeman, MT. December 9, 2004.
- Maxwell BD, Rew LJ, and Aspinall R (2003) Exotic plant survey and monitoring: methods to discover distribution with low frequency occurrence. In: Tom Philippi and Robert Doren (eds), *Proceedings of Detecting Invasive Exotic Plants, Workshop and Conference*, Florida International University, Miami, FL, Feb. 2003. [Invited].
- Rew LJ, Maxwell BD, Aspinall RJ, and Dougher FL (2003) Sampling to understand non-indigenous plant species occurrence and assist with management objectives. *7th International Conference on the Ecology and Management of Alien Plant Invasions*, Florida. 90. [Invited].
- Aspinall R J, Rew LJ, and Maxwell BD (2003) Models for predicting the distribution of rare species: non-indigenous plant species in Yellowstone National Park. *7th International Conference on the Ecology and Management of Alien Plant Invasions*, Florida. 6. [Invited].
- Maxwell BD, Aspinall RJ, and Rew LJ (2003) Statistical and simulation model approaches to understand and manage non-indigenous plant species: case studies from the Greater Yellowstone Ecosystem". *7th International Conference on the Ecology and Management of Alien Plant Invasions*, Florida. 57. [Invited].
- Repath C, Rew LJ, Maxwell BD, Jaseniuk ML, Pauchard A, and Sutherland SS (2003) Monitoring the spatial and temporal dynamics of *Linaria vulgaris* in the Northern Rocky Mountains. *7th International Conference on the Ecology and Management of Alien Plant Invasions*, Florida.75. [Rew presented].
- Rew LJ, Dougher F, Maxwell BD, Lawrence, R, Nielsen GA, Merja C, Arnst G, and Heiken D (2002) Using remotely sensed imagery to assist with crop management decisions: a learning group experience. In: *Precision Agriculture 2002 CD-rom*. [Invited].
- Wagner N, Maxwell BD, Rew LJ, and Goodman D (2002) Development of a yield prediction model for site-specific management of herbicide and fertilizer. In: *Precision Agriculture 2002 CD-rom*.
- Rew LJ (2001) Importance of sampling resolution for site-specific management of weeds. *Proceedings of Third International Weed Control Congress - Foz du Iguassu, Brazil*. [Invited].
- Rew LJ, Lamb DW, Weedon MM, Lucas JL, Medd RW, and Lemerle D (1999) Evaluating airborne multispectral imagery for detecting wild oats in a seedling triticale crop. In: *Precision Agriculture 1999* (ed JV Stafford) Warwick, UK, 265-274. [Invited & Peer reviewed].
- Gavin JJ, Rew LJ, Medd RW, Robinson GR, and Walker SR (1999) On Farm Monitoring of Weed occurrence and density in the Northern Grain Region. *Proceedings of Twelfth Australian Weeds Conference – Hobart, Australia*, 31-34.
- Lutman PWL, and Rew LJ (1997) Spatially selective weed control in arable crops - where are we now? *Proceedings of Brighton Conference of Crop Protection - Weeds*, 637-40. [Peer

- reviewed].
- Rew LJ, Cussans GW, and Miller PCH (1996) Evaluation of four distance and navigation methods for mapping weed positions within arable fields. *Proceedings of Second International Weed Control Congress - Copenhagen, Denmark*. 1103-8. [Invited and Peer reviewed].
- Mugglestone MA, and Rew LJ (1996) Modelling the spatial distribution of arable grass weeds. *Proceedings of International workshop on spatial heterogeneity and temporal complexity in biological systems - Abstracts, Bath*.
- Rew LJ, and Cussans GW (1995) An economic appraisal of patch spraying quack-grass (*Elymus repens* L.) *Proceedings of Weed Science Society of America - Abstracts*, 51.
- Rew LJ, and Cussans GW (1995) Patch ecology and dynamics - how much do we know? *Proceedings of Brighton Conference of Crop Protection - Weeds*, 1059-68. [Invited and Peer reviewed].
- Miller PCH, Stafford JV, Paice MER, and Rew LJ (1995) The patch spraying of herbicides in arable crops. *Proceedings of Brighton Conference of Crop Protection - Weeds*, 1077-86. [Peer reviewed].
- Boatman ND, Rew LJ, Theaker AJ, and Froud-Williams RJ (1994) The impact of nitrogen fertilisers on field margin flora. *BCPC Monograph No. 58 - Field margins: integrating agriculture and conservation*, 209-14. [Peer reviewed].
- Rew LJ, Wilson PJ, Froud-Williams RJ, Boatman ND, and Clarke J (1992) Changes in vegetation composition and distribution within set-aside land. *BCPC Monograph No. 50 - Set-aside*, 79-84. [Peer reviewed].

Technical Reports and Extension Documents, Post 2006

- Backus, V.M., B.D. Maxwell, L.J. Rew, M. Hohmann (2013) ArcPad applets to implement random transect with adaptive sampling designs for surveying non-indigenous plant species. Available at <http://ippf.msu.montana.edu/>
- 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.
- Rew LJ (2011) Developing functional parameters for a science-based vehicle cleaning program to reduce transport of non-indigenous invasive plant species. Final report to Strategic Environment Research and Development Program, Project Number RC-1545. June 2011. pp 63.
- Taylor K, Pollnac F, Brummer T, Mangold J and Rew LJ (2011) Washing vehicles to prevent weed seed dispersal. MontGuide MT201106AG Montana State University.
- Taylor K, Mangold J and Rew LJ (2011) Weed seed dispersal by vehicles. MontGuide MT201105AG Montana State University.
- Rew LJ (2011) Developing functional parameters for a science-based vehicle cleaning program to reduce transport of non-indigenous invasive plant species. Final report to Strategic Environment Research and Development Program, Project Number RC-1545. June 2011. pp 63.
- Balbach H, Rew L, and Fleming J (2008) Evaluating the potential for vehicle transport of propagules of invasive species. U.S. Army Engineer Research and Development Center ERDC/CERL TN-08-1. Pg 4.
- Dollhopf D, Pokorny M, Dougher TAO, Stott L, Rew LJ, Stark J, Peterson M, Fay L, and Shi X

(2008) Using reinforced native grass sod for biostrips, bioswales and sediment control. California Dept. of Transportation, Sacramento, CA.

Rew LJ, Maxwell BD, Dougher FL, Aspinall R, Weaver T, and Despain D (2005) A survey of non-indigenous plant species in the northern range of Yellowstone National Park, 2001-2004. Final Report to the National Park Service.
www.cfc.umt.edu/.../05June%20Maxwell_Rew_Northern%20Range%20YELL_weed%20final%20report.pdf

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

- Rew LJ and Mangold J. Weeds and Wildfire, October 20, 2017, Society of American Foresters presentation: Eastern Chapter of Montana. Bozeman, MT
- 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].