

ERIK A. LEHNHOFF

PUBLICATIONS

Buerdsell, S., Milligan, B., **Lehnhoff, E. A.** (in press). Extreme drought induces rapid declines in co-occurring native *Bouteloua eriopoda* and invasive *Eragrostis lehmanniana*. *Ecospere*.

Agarwal, P., Schutte, B. J., Idowu, J., Steiner, R., **Lehnhoff, E. A.** 2022. Weed suppression versus water use: Efficacy of cover crops in water limited agroecosystems. *Weed Research* 62:24-37.

Lehnhoff, E. A., Indacochea, A., Beck, L. and Neher, P. 2022. Electricity as an effective weed control tool in non-crop areas. *Weed Research* <https://doi.org/10.1111/wre.12523>

Schutte, B. J., Rashid, A., Marquez, I., **Lehnhoff, E. A.**, Beck, L. L. 2021. Seaside petunia (*Calibrachoa parviflora*) susceptibility to herbicides used in dry bulb onion. *HortTechnology*, 31, 679-687.

Larson, C., Menalled, F., **Lehnhoff, E. A.**, Seipel, T. (2021). Plant community responses to integrating livestock into a reduced-till organic cropping system. *Ecosphere* 12.

Buerdsell, S., Milligan, B., **Lehnhoff, E. A.** (2021). Invasive plant benefits a native plant through plant-soil feedback but remains the superior competitor. *Neobiota*, 64, 119-139.

Lehnhoff EA and Creamer R. 2020. Prediction of early season beet leafhopper populations in southern New Mexico. *Plant Health Progress*, 21:71-76. <https://doi.org/10.1094/PHP-08-19-0051-FI>

Antosh E*, Idowu J, Schutte BJ and **Lehnhoff EA**. 2020. Effects of Winter Cover Crops on Soil Quality and Sweet Corn Yield in Semi-Arid Irrigated Systems. *Agronomy Journal* 112:92-106. <https://doi.org/10.1002/agj2.20055>

Metier EP*, **Lehnhoff EA**, Mangold J, Rinella MJ and Rew LJ. 2020. Control of downy (*Bromus tectorum*) and Japanese brome (*Bromus japonicus*) using glyphosate and four graminicides: effects of herbicide rate, plant size, species, and accession. *Weed Technology*, 34:284-291.

Erik A. Lehnhoff Curriculum Vitae Page 4 of 11

Lehnhoff EA and Creamer R. 2020. Prediction of early season beet leafhopper populations in southern New Mexico. 21:71-76, *Plant Health Progress*. <https://doi.org/10.1094/PHP-08-19-0051-FI>

Antosh E*, Idowu J, Schutte BJ and **Lehnhoff EA**. 2020. Effects of Winter Cover Crops on Soil Quality and Sweet Corn Yield in Semi-Arid Irrigated Systems. *Agronomy Journal* 112:92-106. <https://doi.org/10.1002/agj2.20055>

Murray L*, Schutte B, Sutherland C, Beck L, Ganguli A and **Lehnhoff EA**. 2019. Integrating biological control and conventional methods for improved tamarisk management. *Invasive Plant Science and Management* 12:176-185.

Murray L*, Schutte BJ, Ganguli A and **Lehnhoff EA**. 2019. Impacts of *Tamarix* Litter and Mycorrhizal Amendments on *Baccharis salicifolia* Competitiveness and Mycorrhizal Colonization. *Agronomy*, 9, 453; doi:10.3390/agronomy9080453.

Schutte, BJ, **Lehnhoff, EA** and Beck, LL. 2019. Evaluation of POST-directed applications of flumioxazin in New Mexico Chile Pepper. *Weed Technology*, 33:135-141.

Metier EP*, **Lehnhoff EA**, Mangold J, Rinella MJ and Rew LJ. Control of downy (*Bromus tectorum*) and Japanese brome (*Bromus japonicus*) using glyphosate and four graminicides: effects of herbicide rate, plant size, species, and accession. *Weed Technology*, 34:284-291.

Lehnhoff EA, Rew LJ, Mangold J, Seipel TF, and Ragen D. 2019. Integrated management of cheatgrass with sheep grazing and herbicide. *Agronomy*, 9, 315; doi:10.3390/agronomy9060315.

Burns, E, **Lehnhoff, EA**, McKenzie, S, Maxwell, B, Dyer, WE, Menalled, FD. You cannot fight fire with fire: a demographic model suggests alternative approaches to manage multiple herbicide-resistant *Avena fatua*. *Weed Research*. Online June 19, 2018. DOI: 10.1111/wre.12315.

Davis, S, Mangold, J, Menalled, F, Orloff, N, Miller, Z and **Lehnhoff, E**. 2018. A Meta-Analysis of Field Bindweed (*Convolvulus arvensis*) Management in Annual and Perennial Systems. *Weed Science* 66:540-547.

Davis, S, Mangold, J, Menalled, F, Orloff, N, Miller, Z and **Lehnhoff, E**. 2018. A meta-analysis of Canada thistle (*Cirsium arvense*) management. *Weed Science* 66:548-557.

Ranabhat, N, Seipel, T, **Lehnhoff, EA**, Miller, Z, Menalled, F, Burrows, M. 2018. Temperature and alternative hosts influence *Aceria tosichella* infestation and Wheat streak mosaic virus infection. *Plant Disease*. 102:546-551.

Seipel, TF, Rew, LJ, Taylor, KT, Maxwell, BD, **Lehnhoff, EA**. 2018. Disturbance type influences plant community resilience and resistance to *Bromus tectorum* invasion in the sagebrush steppe. *Applied Vegetation Science*. <https://doi.org/10.1111/avsc.12370>

Larson, C, **Lehnhoff, EA**, Rew, LJ. 2018. Competition between cheatgrass and bluebunch wheatgrass is altered by temperature, resource availability, and atmospheric CO2 concentration. *Oecologia* 186:855-868.

<https://apsjournals.apsnet.org/doi/abs/10.1094/PDIS-06-17-0782-RE>

Larson, C, **Lehnhoff, EA**, Rew, LJ. 2017. A warmer and drier climate in the northern sagebrush biome does not promote cheatgrass invasion or change its response to fire. *Oecologia* 185:763-774.

Lehnhoff, EA, Miller, Z, Miller, P, Johnson, S, Scott, T, Hatfield, P and Menalled, FD. 2017. Organic Agriculture and the Quest for the Holy Grail in Water-Limited Ecosystems: Managing Weeds and Reducing Tillage Intensity. *Agriculture*, 7:33; doi:10.3390/agriculture7040033.

Erik A. Lehnhoff Curriculum Vitae Page 5 of 11

Ishaq, SL, Johnson, SP, Miller, ZJ, **Lehnhoff, EA**, Olivo, S, Yeoman, CJ and Menalled, FD. 2017. Impact of cropping systems, soil inoculum, and plant species identity on soil bacterial community structure. *Microbial Ecology*, 73:417-434.

Johnson, S, Miller, ZJ, Miller, P, **Lehnhoff, EA**, Menalled, FD. 2017. Cropping systems modify the impacts of biotic plant-soil feedbacks on wheat (*Triticum aestivum*) growth and competitive interactions. *Weed Research*, 57:6-15.

Herron-Sweet, CR, Mangold, JM, **Lehnhoff, EA**, Burkle, LA, and Littlefield, JL. 2016. Temporal- and density-dependent impacts of an invasive plant on pollinators and pollination services to a native plant. *Ecosphere* 7:1-13.

Miller, ZJ, **Lehnhoff, EA**, Menalled, FD, and Burrows, M. 2015. Effects of nitrogen and CO₂ fertilization on the epidemiology of *Wheat streak mosaic virus*. *Plant Disease*, 99:1803-1807.

Lehnhoff, EA, Miller, ZJ, Menalled, FD, Ito, D, and Burrows, M. 2015. Wheat and barley susceptibility and tolerance to multiple isolates of *Wheat streak mosaic virus*. *Plant Disease*, 99:1383-1389.

Keith, B, **Lehnhoff, EA**, Burns, E, Menalled, FD, and Dyer, W. 2015. Characterization of *Avena fatua* L. populations with resistance to five herbicide modes of action. *Weed Research*, 55:621-630.

Barroso, J, Miller Z., **Lehnhoff, EA**, Hatfield, PG, and Menalled, FD. 2015. Impacts of cropping system and management practices on the assembly of weed communities. *Weed Research*, 55:426-435.

Herron-Sweet, CR, Mangold, JM, **Lehnhoff, EA**, Littlefield, JL, and Burkle, LA. 2015. Native parasitoids associated with the biological control agents of *Centaurea stoebe* in Montana, USA. *Biological Control* 86:20-27.

Ward, S., R.D. Cousens, M.V. Bagavathiannan, J.N. Barney, H.J. Beckie, R. Busi, A.S. Davis, J.S. Dukes, F. Forcella, R.P. Freckleton, E.R. Gallandt, L.M. Hall, M. Jasieniuk, A. Lawton-Rauh, **E.A. Lehnhoff**, M. Liebman, B.D. Maxwell, M.B. Mesgaran, J.V. Murray, P. Neve, M.A. Nuñez, A. Pauchard, S.A. Queenborough, B.L. Webber. 2014. Agricultural weed research: a critique and two proposals. *Weed Science* 62: 672-678.

Lehnhoff, EA, ZJ Miller, MJ Brelsford, S White, and BD Maxwell. 2013. Relative canopy height influences wild oat (*Avena fatua*) seed viability, dormancy, and germination. *Weed Science*, 51:564-569.

Irvine, KM, VM Backus, MG Hohmann, **EA Lehnhoff**, BD Maxwell, K Michels, and LJ Rew. 2013. A comparison of adaptive sampling designs and estimation methods for autologistic regression: a simulation study using a census of *Bromus inermis*. *Environmentrics* 24:407-417.

Lehnhoff, EA, BK Keith, WE Dyer, and FD Menalled. 2013. Impact of biotic and abiotic stresses on the competitive ability of multiple herbicide resistant wild oat (*Avena fatua*). *PLOS One* Volume 8, Issue 5.

Lehnhoff, EA, BK Keith, WE Dyer, RK. Peterson, and FD Menalled. 2013. Characterization of multiple herbicide resistance in wild oat (*Avena fatua*) and its impacts on physiology, germinability, and seed production. *Agronomy Journal*, 105:854-862.

Lehnhoff, EA, FD Menalled. 2013. Impacts of Tamarix-mediated soil changes on restoration plant growth. *Applied Vegetation Science*, 16:438-447.

Murray, JV, **EA Lehnhoff**, P Neve, SL Poggio and BL Webber. 2012. 'Raising the bar': improving the standard and utility of weed and invasive plant research. *New Phytologist* 196:678-680.

Erik A. Lehnhoff Curriculum Vitae Page 6 of 11

Maxwell, BD, V Backus, K Irving, M Hohmann, **EA Lehnhoff** and LJ Rew. 2012. Comparison of transect based adaptive sampling methods for invasive plant species. *Invasive Plant Science and Management* 5: 178-193.

Lehnhoff, EA, LJ Rew, C Zabinski and FD Menalled. 2012. Reduced impact or longer lag phase? *Tamarix* in the northwestern United States. *Wetlands* 32:497-508.

Lehnhoff, EA, FD Menalled and LJ Rew. 2011. Tamarisk (*Tamarix* spp.) establishment in its most northern range. *Invasive Plant Science and Management* 4:58-65.

Maxwell, BD, **EA Lehnhoff** and LJ Rew. 2009. The rationale for monitoring invasive plant populations as a crucial step for management. *Invasive Plant Science and Management* 1:1-9.

Lehnhoff, EA, LJ Rew, BD Maxwell and ML Taper. 2008. Quantifying invasiveness: A case study of *Linaria vulgaris*. *Invasive Plant Science and Management* 1:319-325.

Lehnhoff, EA, W Woolbaugh and LJ Rew. 2008. Designing the Perfect Plant: Activities and a game to investigate plant ecology. *Science Scope*. 32:29-35.

Rew, LJ, **EA Lehnhoff** and BD Maxwell. 2007. Non-indigenous species management using a population prioritization framework. *Canadian Journal of Plant Science*. 87:1029-1036.