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## **Education**

Ph.D. 1997. University of Nebraska - Agronomy (Weed Ecology).  
M. S. 1994. University of Minnesota - Agronomy (Weed Ecology).  
B. S. 1988. Montana State University - Biology and Secondary Science Education.

## **Professional Experience**

Associate Head, Department of Agronomy and Horticulture, University of Nebraska-Lincoln. 25% appointment. Jan. 2019 – present. Provide support to the Head through annual evaluation, co-developing strategic visioning and priorities, supervising staff, advising on resource allocation, and liaise with the extension coordinator and staff advisory council.

Professor of Agronomy, July 2010-present. 80/20% Research/Teaching appointment. Department of Agronomy and Horticulture, University of Nebraska-Lincoln. Research focuses on the mechanisms of interplant competition, plant population biology, and ecological weed management. Teach “Invasive Plants” course (formerly "Principles of Weed Science") and graduate level courses on “Interplant Competition”, “Weed Science Colloquium”, “Seminar Presentation and Evaluation”, and “Research Strategies in Agriculture”.

Associate Professor of Agronomy, University of Nebraska, July 2003 to June 2010. Assistant Professor of Agronomy, University of Nebraska, April 1997 to June 2003.

Graduate Research Assistant. 4/94 to 4/97, Department of Agronomy, University of Nebraska-Lincoln; 4/91 to 4/94. Department of Agronomy and Plant Genetics, University of Minnesota.

Research Technician, 10/90 to 4/91. Plant and Soil Science Department, Montana State University.

Teaching Assistant, UNL, University of Minnesota, Montana State University. 1988-1997. Taught undergraduate laboratory courses in Corn-Soybean Management, Weed Science, Weed Biology and Identification, and Introductory Plant Taxonomy.

Agro-Forestry Extensionist, 1988-1990. U. S. Peace Corps/Philippines. Developed demonstration farm for upland sloping agricultural technology project. Taught English and health education.

Student Teaching, Helena High School, Helena MT 59111. Spring 1988. Taught three levels of ninth grade earth science.

## **Honors and Awards**

AAUP-CBC Summer Institute Scholarship 2019.  
Keynote speaker, 7<sup>th</sup> International Weed Science Congress, 2016, Crop-weed interactions section. Prague, Czech Republic.

Outstanding Paper in Weed Technology Award – 2014, Weed Science Society of America  
Outstanding Paper in Weed Science Award – 2014, Weed Science Society of America  
Invited to apply for the Vincent Fairfax Chair in Sustainable Agriculture & Rural Development at the University of Western Sydney in Australia (2008)  
Holtzclaw-Day Graduate Fellowship (1996-7; UNL).  
WSSA Outstanding Graduate Student Award (1996). Students Sam Wortman (2012) and Rodrigo Werle (2016)  
Hardin Distinguished Graduate Fellowship (1995-7; UNL).  
Sigma Xi (The Scientific Research Society) full member, Nebraska Chapter (1995).  
G. O. Mott Meritorious Graduate Student Award in Crop Science (1995, 1996; UNL).  
Widaman Trust Distinguished Graduate Assistant Award (1994-5; UNL).  
Norman Borlaug International Research Fellowship (1992; UMN).  
Agronomy Graduate Student Fellowship (1991; UMN).  
Phi Kappa Phi Honor Society, Montana Chapter (1988; MSU).

### **Invited Presentations**

Lindquist, J. L. 2015. Modeling interplant competition. DSSAT Development Sprint, Dec. 9-11, 2015, Muscle Shoals AL.  
Lindquist, J. L. 2012. Ecology of weedy and invasive plants in agroecosystems. Institute of Grassland Science, School of Life Sciences, Northeast Normal University, Changchun, Peoples Republic of China.  
Lindquist, J. L. 2012. Pollen-mediated gene flow from sorghum to shattercane. USDA Biotechnology Risk Assessment Grants Program Project Directors meeting. Washington D.C. June 5, 2012.  
Lindquist, J. L. 2012. IWM: What the heck is that? Northeast Weed Science Society. Philadelphia. January 3-6, 2012.  
Lindquist, J. L. 2008. Ecophysiology of interplant competition. Faculty of Agriculture, University of Belgrade. Belgrade, Serbia. May 28, 2008.  
Lindquist, J. L. 2008. Ecology of weedy and invasive plants in agroecosystems. Institute for Biological Research, University of Belgrade. Belgrade, Serbia. May 29, 2008.  
Lindquist, J. L. 2001. Modelisation in Weed Management: The role of mechanistic models in weed management decision support. Canadian Weed Science Society, Quebec City, Quebec.

### **Professional Membership**

American Society of Agronomy  
Crop Science Society of America  
North Central Weed Science Society  
Weed Science Society of America (WSSA)  
International Weed Science Society  
American Association of University Professors

### **Organizational Citizenship**

- UNL Department of Agronomy and Horticulture Promotion and Tenure Committee, member 2013-2014, chair 2014-2017
- Volunteer trainer of trainers for a USAID/Winrock Intl. Farmer to Farmer program on irrigated maize production in Ejiba, Kogi State, Nigeria and Zaria, Kaduna State, Nigeria. 2012 and 2014
- Carl Sprengel Agronomic Research Award Committee, ASA (2012-2018)

- American Society of Agronomy Liaison to the Weed Science Society of America (2014-2016)
- Service on Department Computer, Graduate, Seminar, Faculty Advisory, Undergraduate Curriculum, Facilities, Scholarship, and Peer Evaluation committees.
- Completed service on four tenure track faculty search and screen committees, chairing three.
- Service on Doctor of Plant Health Steering Committee and participated in its curriculum development
- Chair, Department of Agronomy and Horticulture Weed Science Peer Group (2005/2006; 2009/2010)
- Chair, Agronomy Graduate Committee (2005/2006)
- Service on the Institute of Agriculture and Natural Resources ARDC Advisory Committee
- Served as the IANR internal member of the Department of Statistics program review team (2005).
- Represented faculty on the UNL Academic Senate 1998-2004 and 2007-2012.
- Elected member of the UNL Faculty Senate Executive Committee (2007-2012)
- President-Elect (2009/2010), President (2010/2011), Past President (2011/2012) UNL Faculty Senate
- Served on joint Faculty Senate/Administrative committee to create a UNL policy on handling allegations of research misconduct (2008-2010).
- Service on search committee for the UNL Senior Vice Chancellor for Academic Affairs (2010-2011).
- Service on search committee for the Dean of the IANR Agricultural Research Division (2011).
- Served on committee to revise the UNL Conflict of Interest policy (2010-2011).
- State representative on the NCR-IPM coordinators and researchers group (2001-2006).
- Local host (2002, 2008), vice chair (2002, 2007), chair (2003, 2008), and writing committee (2000, 2005, 2010) of the NC-# Multistate Research Project on Weed Biology and Ecology
- Vice Chair (1999, 2007), Chair (2000, 2008), and session moderator, Weed Ecology and Biology Committee of the North Central Weed Science Society.
- Vice Chair (2009) and Chair (2010) of the Resident Education Committee, North Central Weed Science Society. Responsible for coordinating graduate student paper contest
- Served on grant review panel for the USDA Southern Regional IPM Grants Program, 2005 & 2006.
- Served on grant review panel for the USDA Western Regional IPM Grants Program, 2008 & 2009.
- Served on grant review panel for the USDA CSREES NRI “Biology of Weedy and Invasive Species” competitive grants program, 2009.
- Served on grant review panel for the USDA NIFA Biotechnology Risk Assessment competitive grants program, 2012.
- Vice chair (1999, 2008) and Chair (2000, 2009) of the Weed Biology and Ecology Section, WSSA
- Chaired the WSSA Outstanding Graduate Student Award subcommittee (1998-2002).
- Associate Editor for Weed Science Journal, 2002 – 2018.
- Regular external reviewer of USDA NRI Competitive Grants Program, the Natural Sciences and Engineering Research Council of Canada, Field Crops Research, Weed Research, Agronomy Journal, Weed Technology, NSF EPSCOR and other NSF

**Refereed Publications** (ISI Web of Science lists 80 on 12/20/18; total citations = 1877; avg. citations/item = 23.5; h index = 22)

1. Laborde, J. P., C. S. Wortmann, H. Blanco-Canqui, A. J. McDonald, and J. L. Lindquist. 2019. Simulation-based maize-wheat cropping system optimization in the midhills of Nepal. *Agronomy Journal* 111:(in press). doi.org/10.2134/agronj2018.08.0509
2. Laborde, J. P., C. S. Wortmann, H. Blanco-Canqui, A. J. McDonald, G. Baigorria, and J. L. Lindquist. 2019. Short-term impacts of conservation agriculture on soil physical properties and productivity. *Agronomy Journal* 111:(in press). doi.org/10.2134/agronj2018.11.0714
3. Cafaro La Menza, N., J. P. Monzon, J. E. Specht, J. L. Lindquist, T. J. Arkebauer, G. Graef and P. Grassini. 2019. Nitrogen limitation in high-yield soybean: seed yield, N accumulation, and N-use efficiency. *Field Crops Research* 237:74-81. doi.org/10.1016/j.fcr.2019.04.009
4. Florence, A. M., L. G. Higley, R. A. Drijber, C. A. Francis and J. L. Lindquist. 2019. Cover crop mixture diversity, biomass productivity, weed suppression, and stability. *PLoS One* 14(3):e0206195 doi.org/10.1371/journal.pone.0206195 March 14, 2019
5. Barnes, E. R., A. J. Jhala, S. Z. Knezevic, P. H. Sikkema and J. L. Lindquist. 2019. Soybean and common ragweed (*Ambrosia artemisiifolia*) growth in monoculture and mixture. *Weed Technology* doi.org/10.1017/wet.2018.119
6. Liben, F. M., C. S. Wortmann, H. Yang, J. L. Lindquist, T. Tadesse, and D. W. Gissa. 2018. Crop model and weather data generation evaluation for conservation agriculture in Ethiopia. *Field Crops Research* 228:122-134. doi.org/10.1016/j.fcr.2018.09.001
7. Schmidt, J. J., M. K. Yerka, J. F. Pedersen and J. L. Lindquist. 2018. Growth, fitness, and overwinter survival of a shattercane (*Sorghum bicolor ssp. drummondii*) x grain sorghum (*Sorghum bicolor ssp. bicolor*) F<sub>2</sub> population. *Weed Science* 66:634-641. doi: 10.1017/wsc.2018.34
8. Barnes, E. R., A. J. Jhala, S. Z. Knezevic, P. H. Sikkema and J. L. Lindquist. 2018. Common ragweed (*Ambrosia artemisiifolia* L.) interference with soybean in Nebraska. *Agronomy Journal* 110:646-653. doi.org/10.2134/agronj2017.09.0554
9. Yakoub, A., J. Lloveras, A. Biau, J. L. Lindquist and J. I. Lizaso. 2017. Testing and improving the maize models in DSSAT: Development, growth, yield, and N uptake. *Field Crops Research* 212: 95-106. doi: 10.1016/j.fcr.2017.07.002
10. Barnes, E. R., S. Z. Knezevic, P. H. Sikkema, J. L. Lindquist and A. J. Jhala. 2017. Control of glyphosate-resistant common ragweed (*Ambrosia artemisiifolia* L.) in glufosinate-resistant soybean [*Glycine max* (L.) Merr]. *Frontiers in Plant Science* 8:1455. published: 18 August 2017 doi: 10.3389/fpls.2017.01455
11. Barnes, E. R., R. Werle, L. D. Sandell, J. L. Lindquist, S. Z. Knezevic, P. H. Sikkema and A. J. Jhala. 2017. Influence of tillage on common ragweed (*Ambrosia artemisiifolia* L.) emergence pattern in Nebraska. *Weed Technology* 31:623-631.
12. Werle, R., K. Begcy, M. K. Yerka, J. P. Mower, I. Dweikat, A. J. Jhala and J. L. Lindquist. 2017. Independent evolution of acetolactate synthase-inhibiting herbicide resistance in weedy *Sorghum* populations across common geographic regions. *Weed Science* 65:164-176.

13. Sarangi, D., A. J. Tyre, E. L. Patterson, T. A. Gaines, S. Irmak, S.Z. Knezevic, J. L. Lindquist, and A.J. Jhala. 2017. Pollen-mediated gene flow from glyphosate-resistant common waterhemp (*Amaranthus rudis* Sauer): consequences for the dispersal of resistance genes. *Nature Scientific Reports* 7:44913. DOI: 10.1038/srep44913
14. Ganie, Z. A., J. L. Lindquist, M. Jugulam, G. R. Kruger, D. B. Marx and A. J. Jhala. 2017. An integrated approach to control glyphosate-resistant *Ambrosia trifida* with tillage and herbicides in glyphosate-resistant maize. *Weed Research* 57:112-122. DOI: 10.1111/wre.12244
15. Werle, R., B. Tenhumberg and J. L. Lindquist. 2017. Modeling shattercane dynamics in herbicide-tolerant grain sorghum cropping systems. *Ecological Modeling* 343:131-141.
16. Butts, T. R., J. J. Miller, J. D. Pruitt, B. C. Vieira, M. C. Oliveira, S. Ramirez II and J. L. Lindquist. 2016. Light quality effect on corn growth as influenced by weed species and nitrogen rate. *Journal of Agricultural Science* 9(1):15-27. doi:10.5539/jas.v9n1p15 December 15, 2016.
17. Vaughn, L. G., M. L. Bernards, T. J. Arkebauer and J. L. Lindquist. 2016. Corn and velvetleaf (*Abutilon theophrasti*) growth and transpiration efficiency under varying water supply. *Weed Science* 64:596-604.
18. Werle, R., A. J. Jhala, M. K. Yerka, J. A. Dille and J. L. Lindquist. 2016. Distribution of herbicide-resistant shattercane and johnsongrass populations in sorghum production areas of Nebraska and northern Kansas. *Agronomy Journal* 108:321-328.
19. Sarangi, D., S. Irmak, J. L. Lindquist, S. Z. Knezevic and A. J. Jhala. 2016. Effect of water stress on the growth and fecundity of common waterhemp (*Amaranthus rudis*). *Weed Science* 64:42-52.
20. Blanco-Canqui, H., T. M. Shaver, J. L. Lindquist, C. A. Shapiro, R. W. Elmore, C. A. Francis and G. W. Hergert. 2015. Cover crops and ecosystem services: insights from studies in temperate soils. *Agronomy Journal* 107:2449-2474.
21. Li, H., J. L. Lindquist and Y. Yang. 2015. Effects of sowing date on phenotypic plasticity of fitness-related traits in two annual weeds on the Songnen Plain of China. *PLOS One* DOI:10.1371/journal.pone.0127795 May 29, 2015.
22. Sarangi, D., L. D. Sandell, S. Z. Knezevic, J. S. Aulakh, J. L. Lindquist, S. Irmak and A. J. Jhala. 2015. Confirmation and control of glyphosate-resistant common waterhemp (*Amaranthus rudis*) in Nebraska. *Weed Technology* 29:82-92.
23. Werle, R., L. J. Giesler, M. L. Bernards and J. L. Lindquist. 2015. Likelihood of soybean cyst nematode (*Heterodera glycines*) reproduction on henbit (*Lamium amplexicaule*) roots in Nebraska. *Weed Technology* 29:35-41.
24. Wortman, S. E., J. J. Schmidt and J. L. Lindquist. 2015. Weed suppressive potential of sudangrass is driven by interactions of root exudates and decomposing shoot residue. *Crop Management* 2014 13: 1: - doi:10.2134/CM-2013-0037-RS.
25. Kaur, S., L. D. Sandell, J. L. Lindquist and A. J. Jhala. 2014. Glyphosate-resistant giant ragweed (*Ambrosia trifida*) control in glyphosate-resistant soybean. *Weed Technology* 28:569-577.

26. Werle, R., L. L. Perez, L. L. Sandell and J. L. Lindquist. 2014. Corn (*Zea mays*) emergence and early growth as influenced by tansymustard (*Descurainia pinnata*) residue. *Crop Management* 13:1-5. DOI 10.2134/CM-2013-0088-RS
27. Werle, R., L.D. Sandell, D.D. Buhler, R.G. Hartzler, and J. L. Lindquist. 2014. Predicting emergence of twenty three summer annual weed species. *Weed Science* 62:267-279.
28. Werle, R., J. Schmidt, J. Laborde, A. Tran, C. F. Creech and J. L. Lindquist. 2014. Shattercane x ALS-tolerant sorghum F1 hybrid and shattercane interference in ALS-tolerant sorghum. *Journal of Agricultural Science* 6:159-165. doi:10.5539/jas.v6n4p159
29. Clay, S. A., A. Davis, J. A. Dille, J. Lindquist, A. H. M. Ramirez, C. Sprague, G. Reicks, and F. Forcella,. 2014. Common sunflower seedling emergence across the US Midwest. *Weed Science* 62:63-70.
30. Werle, R., M. L. Bernards, T. J. Arkebauer and J.L. Lindquist. 2014. Environmental triggers of winter annual weed emergence in the Midwestern United States. *Weed Science* 62:83-96.
31. Schutte, B. J., S. E. Wortman, J. L. Lindquist and A. S. Davis. 2013. Maternal environment effects on phenolic defenses in *Abutilon theophrasti* seeds. *American Journal of Plant Science* 4:1127-1133. DOI:10.4236/ajps.2013.45139
32. Wortman, S. E., R. A. Drijber, C. A. Francis and J. L. Lindquist. 2013. Arable weeds, cover crops, and tillage drive soil microbial community composition in organic cropping systems. *Applied Soil Ecology* 72:232-241.
33. Schmidt, J. J., J. F. Pedersen, M. L. Bernards and J. L. Lindquist. 2013. Rate of shattercane x sorghum hybridization in situ. *Crop Science* 53:1677-1685.
34. Davis, A. S., S. Clay, J. Cardina, A. Dille, F. Forcella, J. Lindquist, and C. Sprague. 2013. Seed burial physical environment explains departures from regional hydrothermal model of giant ragweed (*Ambrosia trifida*) seedling emergence in U.S. Midwest. *Weed Science* 61:415-421.
35. Werle, R., M. L. Bernards, L.J. Giesler, and J.L. Lindquist. 2013. Influence of two herbicides on soybean cyst nematode (*Heterodera glycines*) reproduction on henbit (*Lamium amplexicaule*) roots. *Weed Technology* 27:41-46.
36. Wortman, S. E., C. A. Francis, M. A. Bernards, E. E. Blankenship and J. L. Lindquist. 2013. Mechanical termination of diverse cover crop mixtures for improved weed suppression in organic cropping systems. *Weed Science* 61:162-170.
37. Han, C., C. Borman, D. Osantowski, J. Wagnitz, K. Koehler-Cole, K. Korus, E. Sonderegger, R. Werle, T. Wood and J. L. Lindquist. 2012. Productivity of field pea (*Pisum sativum* L.) and spring oat (*Avena sativa* L.) grown as sole and intercrops under different nitrogen levels. *Journal of Agricultural Science* 4(11):136-143. DOI:10.5539/jas.v4n11p136  
<http://www.ccsenet.org/journal/index.php/jas/issue/view/669>
38. Wortman, S. E., A. S. Davis, B. J. Schutte, J. L. Lindquist, J. Cardina, J. Felix, C. L. Sprague, J. A. Dille, A. H. M. Ramirez, G. Reicks and S. A. Clay. 2012. Local conditions, not spatial gradients, drive demographic variation of *Ambrosia trifida* and *Helianthus annuus* across the northern US corn belt. *Weed Science* 60:440-450.

39. Wortman, S. E., C. A. Francis, M. L. Bernards, R. A. Drijber, and J. L. Lindquist. 2012. Optimizing cover crop benefits with diverse mixtures and an alternative termination method. *Agronomy Journal* 104:1425-1435.
40. Wortman, S. E., C. A. Francis and J. L. Lindquist. 2012. Cover crop mixtures for the western corn belt: Opportunities for increased productivity and stability. *Agronomy Journal* 104:699-705.
41. Lindquist, J. L., S. E. Wortman and C. A. Francis. 2011. Adding value to graduate education: the comprehensive examination. *NACTA Journal* 55(4):106-107.
42. Wortman, S. E., A. S. Davis, B. J. Schutte and J. L. Lindquist. 2011. Integrating management of soil nitrogen and weeds. *Weed Sci.* 59:162-170.
43. Okalebo, J., G. Y. Yuen, R. A. Drijber, E. E. Blankenship, C. Eken, and J. L. Lindquist. 2011. Biological suppression of velvetleaf (*Abutilon theophrasti*) in an eastern Nebraska soil. *Weed Sci.* 59:155-161.
44. Schmidt, J. J., E. E. Blankenship, and J. L. Lindquist. 2011. Corn and velvetleaf (*Abutilon theophrasti*) transpiration in response to drying soil. *Weed Sci.* 59:50-54.
45. Wortman, S. E., J. L. Lindquist, M. J. Haar and C. A. Francis. 2010. Increased weed diversity, density and aboveground biomass in long-term organic crop rotations. *Renewable Agriculture and Food Systems* 25:281-295.
46. Sahoo, L., J. J. Schmidt, J. F. Pedersen, D. J. Lee and J. L. Lindquist. 2010. Growth and fitness components of wild x cultivated *Sorghum bicolor* (Poaceae) hybrids in Nebraska. *Am. J. Bot.* 97(10):1-8.
47. Popovic, Z. S. and J. L. Lindquist. 2010. Evaluation of INTERCOM model for predicting growth of forest herbs. *Arch. Biol. Sci., Belgrade* 62:175-183.
48. Lindquist, J. L., S. P. Evans, C. A. Shapiro, and S. Z. Knezevic. 2010. Effect of nitrogen addition and weed interference on soil nitrogen and corn nitrogen nutrition. *Weed Technology* 24:50-58. <http://digitalcommons.unl.edu/agronomyfacpub/420>
49. Bonifas, K. D. and J. L. Lindquist. 2009. Effects of nitrogen supply on the root morphology of corn and velvetleaf. *Journal of Plant Nutrition* 32:1371-1382. <http://digitalcommons.unl.edu/agronomyfacpub/422>
50. Terra, B. R. M., A. R. Martin and J. L. Lindquist. 2007. Corn-velvetleaf (*Abutilon theophrasti*) interference is affected by sublethal doses of postemergence herbicides. *Weed Science* 55:491-496.
51. Williams, M. M. II and J. L. Lindquist. 2007. Influence of planting date and weed interference on sweet corn growth and development. *Agronomy Journal* 99:1066-1072. <http://digitalcommons.unl.edu/agronomyfacpub/381>
52. Lindquist, J. L., D. C. Barker, S. Z. Knezevic, A. R. Martin and D. T. Walters. 2007. Comparative nitrogen uptake and distribution in corn and velvetleaf (*Abutilon theophrasti*). *Weed Science* 55:102-110. <http://digitalcommons.unl.edu/agronomyfacpub/374>

53. Wang, G., M. E. McGiffen, Jr., J. L. Lindquist, J. D. Ehlers and I. Sartorato. 2007. Simulation study of the competitive ability of erect, semi-erect, and prostrate cowpea (*Vigna unguiculata*) genotypes. *Weed Research* 47:129-139. <http://digitalcommons.unl.edu/agronomyfacpub/402>
54. Gustafson, T. C., S. Z. Knezevic, T. E. Hunt and J. L. Lindquist. 2006. Simulated insect defoliation and duration of weed interference affected soybean growth. *Weed Science* 54:735-742. (J. Series No. 14538) <http://digitalcommons.unl.edu/agronomyfacpub/378>
55. Gustafson, T. C., S. Z. Knezevic, T. E. Hunt and J. L. Lindquist. 2006. Early season insect defoliation influences the critical time for weed removal in soybean. *Weed Science* 54:509:515. (J. Series No. 14537) <http://digitalcommons.unl.edu/agronomyfacpub/417>
56. Hock, S. M., S. Z. Knezevic, A. R. Martin and J. L. Lindquist. 2006. Performance of WeedSOFT for predicting soybean yield loss. *Weed Technology* 20:478-484. (J. Series No. 14933) <http://digitalcommons.unl.edu/agronomyfacpub/372>
57. Barker, D. C., S. Z. Knezevic, A. R. Martin, D. T. Walters and J. L. Lindquist. 2006. Effect of nitrogen addition on the comparative productivity of corn and velvetleaf (*Abutilon theophrasti*). *Weed Science* 54:354-363. (J. Series No. 14671)
58. Bonifas, K. D. and J. L. Lindquist. 2006. Predicting biomass partitioning to root versus shoot in corn and velvetleaf (*Abutilon theophrasti*). *Weed Science* 54:133-137. (J. Series No. 14566) <http://digitalcommons.unl.edu/agronomyfacpub/377>
59. Burton, M. G., D. A. Mortensen, and J. L. Lindquist. 2006. Effect of cultivation and within-field differences in soil conditions on feral *Helianthus annuus* growth in ridge-tillage maize. *Soil and Tillage Research* 88:8-15. <http://digitalcommons.unl.edu/agronomyfacpub/421>
60. Hock, S. M., S. Z. Knezevic, A. R. Martin and J. L. Lindquist. 2006. Soybean row spacing and weed emergence time influence weed competitiveness and competitive indices. *Weed Science* 54:38-46. (J. Series No. 14817) <http://digitalcommons.unl.edu/agronomyfacpub/375>
61. Davis, A. S., J. Cardina, F. Forcella, G. A. Johnson, G. Kegode, J. L. Lindquist, E. C. Luschei, K. A. Renner, C. L. Sprague and M. M. Williams II. 2005. Environmental factors affecting seed persistence of annual weeds across the U.S. corn belt. *Weed Science* 53:860-868.
62. Bonifas, K. D., D. T. Walters, K. G. Cassman and J. L. Lindquist. 2005. Nitrogen supply affects root:shoot ratio in corn and velvetleaf (*Abutilon theophrasti*). *Weed Science* 53:670-675. (J. Series No. 14904) <http://digitalcommons.unl.edu/agronomyfacpub/416>
63. Lindquist, J. L., T. J. Arkebauer, D. T. Walters, K. G. Cassman and A. Dobermann. 2005. Maize radiation use efficiency under optimal growth conditions. *Agronomy Journal* 97:72-78. (J. Series No. 14531) <http://digitalcommons.unl.edu/agronomyfacpub/92>
64. Hock, S. M., S. Z. Knezevic, A. R. Martin and J. L. Lindquist. 2005. Influence of soybean row width and velvetleaf emergence time on velvetleaf (*Abutilon theophrasti*). *Weed Science* 53:160-165. (J. Series No. 14646) <http://digitalcommons.unl.edu/agronomyfacpub/415>
65. Waltz, A. L., A. R. Martin, F. W. Roeth, and J. L. Lindquist. 2004. Glyphosate efficacy on velvetleaf varies with application time of day. *Weed Technology* 18:931-939. (J. Series No. 13842) <http://digitalcommons.unl.edu/agronomyfacpub/419>



66. Fischer, D. W., R. G. Harvey, T. T. Bauman, S. Phillips, S. E. Hart, G. A. Johnson, J. J. Kells, J. Lindquist, and P. Westra. 2004. *Chenopodium album* interference with *Zea mays* across the north central USA. *Weed Science* 52:1034-1038. <http://digitalcommons.unl.edu/agronomyfacpub/411>
67. Burton, M. G., D. A. Mortensen, D. B. Marx, and J. L. Lindquist. 2004. Factors affecting the realized niche of common sunflower (*Helianthus annuus* L.) in ridge tillage corn. *Weed Science* 52:779-787.
68. Yang, H. S., A. Dobermann, J. L. Lindquist, D. T. Walters, T. J. Arkebauer, and K. G. Cassman. 2004. Hybrid-Maize – a maize simulation model that combines different crop modeling approaches. *Field Crops Research* 87:131-154. (J. Series No. 14167) <http://digitalcommons.unl.edu/agronomyfacpub/137>
69. Deen, W., R. Cousens, J. Warringa, L. Bastianns, P. Carberry, K. Rebel, S. Riha, C. Murphy, L. R. Benjamin, C. Cloughley, J. Cussans, F. Forcella, T. Hunt, P. Jamieson, J. Lindquist, and E. Wang. 2003. An evaluation of four crop:weed competition models using a common data set. *Weed Research* 43:116-129. <http://digitalcommons.unl.edu/agronomyfacpub/125>
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### **Manuscripts in preparation**

- Liben, F. M., T. Tadesse, H. K. Kim, , J. L. Lindquist, C. S. Wortmann, D. Wegary, H. Yang, and Z. Stewart. Geospatial modeling of maize nitrogen response functions for Ethiopia. *Agricultural Systems* (in review).

- Florence, A. M., R. A. Drijber, E. S. Jeske, L. G. Higley, C. A. Francis and J. L. Lindquist. Cover crop mixture diversity, soil nutrient retention, soil microbial biomass, and soil microbial community structure. *Geoderma* (submitted).
- Laborde, J. P., C. S. Wortmann, H. Blanco-Canqui and J. L. Lindquist. Modeling soil texture and residue management impacts on conservation agriculture productivity in the mid-hills of Nepal. *Soil and Tillage Research* (in preparation).
- Laborde, J. P., C. S. Wortmann, H. Blanco-Canqui, G. A. Baigorriaa and J. L. Lindquist. Identifying the drivers and predicting the outcome of conservation agriculture globally. *Agricultural Systems* (in preparation).
- Kouame J. K. B., S. Z. Knezevic, A. J. Jhala, T. J. Arkebauer and J. L. Lindquist. Soybean (*Glycine max* L.) yield loss due to multispecies interference from common ragweed (*Ambrosia artemisiifolia* L.) and common waterhemp (*Amaranthus rudis* Sauer) under variable water supply in Nebraska. *Weed Science* (in preparation).
- Kouame J. K. B., S. Z. Knezevic, A. J. Jhala, T. J. Arkebauer and J. L. Lindquist. How is soybean (*Glycine max* L.) growth affected by multispecies interference from common ragweed (*Ambrosia artemisiifolia* L.) and common waterhemp (*Amaranthus rudis* Sauer) under variable water supply in Nebraska.
- Yerka, M. K., J. J. Schmidt, and J. L. Lindquist. Flowering synchrony of six shattercane populations with three maturity classes of cultivated sorghum at different planting dates in tilled and untilled soils in Nebraska. *Weed Science* (in preparation).
- Vaughn, L. G., M. L. Bernards, T. J. Arkebauer and J. L. Lindquist. Effect of variable water supply on corn-velvetleaf interference. *Weed Science* (in preparation).

## Book Chapters

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95. Kropff, M. J., S. E. Weaver, L. A. P. Lotz, J. L. Lindquist, W. Joenje, B. J. Schnieders, N. C. van Keulen, T. R. Migo, and F. F. Fajardo. 1993. Understanding crop-weed interaction in field situations.

*in* Modelling Crop-Weed Interactions. Kropff, M. J. and H. H. van Laar (eds.). CAB International and The International Rice Research Institute.

### **Reviewed Conference Proceedings and Extension Circulars**

96. Gaussoin, R. E., S. Z. Knezevic, and J. L. Lindquist. 2010. Noxious weeds of Nebraska: Spotted and Diffuse Knapweed. University of Nebraska, Cooperative Extension EC-173.
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100. Walters, D. T., A. Dobermann, K. G. Cassman, R. Drijber, J. Lindquist, J. Specht and H. Yang. 2004. Changes in nitrogen use efficiency and soil quality after five years of managing for high yield corn and soybean. Proceedings of the 34<sup>th</sup> North Central Industry-Extension Soil Fertility Conference, November 17-18, 2004, Des Moines IA. Potash and Phosphate Institute, Brookings SD.
101. Arkebauer, T., A. Dobermann, K. Cassman, R. Drijber, J. Lindquist, J. Specht, D. Walters and H. Yang. 2004. Changes in Nitrogen use efficiency and soil quality after five years of managing for high yield corn and soybean. In: Murphy, L. S. (Ed.), Fluid focus: the third decade. Proceedings of the 2004 Fluid Forum, Vol. 21. Fluid Fertilizer Foundation, Manhattan KS pp. 73-79.  
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103. Dobermann, A., T.J. Arkebauer, K.G. Cassman, J.L. Lindquist, J.E. Specht, D.T. Walters, and H.S. Yang. 2002. Understanding and managing corn yield potential. *In* Proc. of the Fertilizer Industry Round Table, October 28-30, Charleston, SC. The Fertilizer Industry Round Table, Forest Hill, MD.  
<http://digitalcommons.unl.edu/agronomyfacpub/340>
104. Heckman, N. L., R. M. Goss, R. E. Gaussoin, S. Z. Knezevic, and J. L. Lindquist. 2002. Spotted and Diffuse Knapweed: Biology, Identification, Distribution, and Control. University of Nebraska, Cooperative Extension EC02-173. <http://digitalcommons.unl.edu/extensionhist/1483>
105. Dobermann, A., T.J. Arkebauer, K.G. Cassman, J.L. Lindquist, D.T. Walters, H.S. Yang, B. Amos, D.L. Binder, and G. Teichmeier. 2002. Understanding corn yield potential and optimal soil productivity in irrigated corn systems. p. 260-272. *In* A.J. Schlegel (ed.) Great Plains Soil Fertility Conference Proceedings, Vol. 9. Kansas State University, Manhattan,KS.

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107. Arkebauer, T., K.G. Cassman, A. Dobermann, R. A. Drijber, J. Lindquist, L. Nelson, W. L. Powers, K. Russell, J.E. Specht and D.T. Walters. 2001. Annual report to the Fluid Fertilizer Foundation: Yield potential and optimal soil productivity in irrigated corn systems of the North Central USA. p. 44-54. *In* L.S. Murphy (ed.) Proceedings of the 2001 Fluid Forum, Vol. 18. Fluid Fertilizer Foundation, Manhattan,KS.
108. Arkebauer, T., K. Cassman, A. Dobermann, R. Drijber, J. Lindquist, L. Nelson, W. Powers, K. Russell, J. Specht and D. Walters. 2001. Are currently recommended fertilizer management programs sufficient? *Fluid Journal* 9(3):16-19
109. Knezevic, S. Z., S. P. Evans, C. A. Shapiro, and J. L. Lindquist. 2000. Effect of nitrogen on the critical period of weed control in corn. Proceedings of the 3<sup>rd</sup> International Weed Science Society, pp113-136. Iguassu Falls, Brazil.
110. Lindquist, J. L. and D. A. Mortensen. 1997. A simulation approach to identifying the mechanisms of maize tolerance to velvetleaf competition for light. p. 503-508. *In* Weeds. Proceedings of the Brighton Crop Protection Conference. British Crop Protection Council, Croydon, UK.

### Grants Funded

- Lindquist, J. L., M. Yerka, B. Tenhumberg, A. Jhala, B. Sigmon, and R. Werle. 2017-2020. A risk-assessment model and population genomics tools for monitoring herbicide-resistance evolution in weedy sorghum. USDA NIFA Biotechnology Risk Assessment Grants Program **\$499,998**
- Werle, R., D. Rudnick, C. Burr, S. Stepanovic, C. Creech and J. Lindquist. 2016-2019. Impact of wheat stubble management and cover crops on sustainability of wheat-corn-fallow rotation in semi-arid Nebraska. University of Nebraska Agricultural Research Division Wheat **\$150,000**
- Grassini, P., T. Arkebauer, G. Graef, and J. Lindquist. 2014-2017. Resource-use efficiency of high yield soybean. Nebraska Soybean Board **\$130,000**
- Mirsky, S. B., Lindquist J. L. et al. 2015-2019. An integrated pest management approach to addressing the multiple-resistant weed epidemic in three major US field crop production regions. USDA-ARS Area-Wide Pest Management Program \$5,000,000; **\$141,000** to Lindquist.
- Drijber, R. A., J. L. Lindquist and H. Blanco. 2015-2017. Cover crop strategies to build soil organic matter, thereby enhancing soil biology, water retention and weed control in organic cropping systems of the western corn belt. Ceres Trust Organic Research Initiative **\$180,000**
- Jhala, A. and J. L. Lindquist. 2013-2016. Pollen-mediated gene flow from acetolactate synthesis-inhibiting herbicide-resistant sorghum to johnsongrass. DuPont **\$296,286**
- Tran, A. and J. L. Lindquist. 2013-2015. Cover crop mixture functional diversity and its effect on biomass production, soil fertility, soil moisture, weed suppression, biodiversity, economic return, and

- performance stability. USDA, University of Minnesota – SARE Program. **\$10,000**
- Lindquist, J. L. and A. Jhala. 2013-2016. ALS resistance in shattercane and johnsongrass: Current status and future predictions. United Sorghum Checkoff Program. **\$220,525**
- Laborde, J., J. L. Lindquist and A. McDonald. 2013-2015. Spring 2013 US Borlaug fellows in global food security graduate research grant. Center for Global Food Security – Borlaug Fellows Program, Purdue University. **\$41,826**
- Florence (Tran), A. 2012-2017. NSF Graduate Research Fellowship. NSF **\$128,000**.
- Lindquist, J. L., R. Drijber, C. A. Francis and S. E. Wortman. 2012-2014. Diverse cover crop strategies for improved yield and weed suppression in organic cropping systems for the western corn belt. The Ceres Trust Organic Research Initiative. **\$135,794**.
- Lindquist, J. L., M. Bernards, J. Pedersen, J. J. Schmidt. 2010-2015. Crop-wild gene flow in sorghum and relative fitness of the shattercane x sorghum F2 population. USDA-Biotechnology Risk Assessment Research Grants Program. **\$300,000**.
- Lindquist, J., J. Pedersen, and M. Bernards. 2010-2012. Understanding the risks of deploying herbicide resistant sorghum: Maintaining a critical management resource. DuPont. **\$30,000**.
- Lindquist, J. L., C. A. Francis, R. Drijber, M. L. Bernards and S. E. Wortman. 2009-2012. Increasing cover crop diversity and weed suppressive potential of soils in organic cropping systems. The Ceres Trust Organic Research Initiative. **\$163,489**.
- Lindquist, J. L. and S. Miller. 2007-2008. Norman Borlaug International Agricultural Science and Technology Fellows Program: Serbia – Agronomy. USDA-FAS. **\$93,310**.
- Lindquist, J. L., G. Yuen and R. Drijber. 2006-2009. Contribution of *Fusarium lateritium* to weed suppressive soils and weed abundance. USDA NRICGP 51.9 Biology of Weedy and Invasive Species in Agroecosystems Program. Award #2006-35320-17213 **\$366,186**.
- Martin, A. R., D. Lee and J. L. Lindquist. 2005-2009. Effect of transgenes from sorghum on the fitness of shattercane × sorghum hybrids. USDA Cooperative Agreement #58-5440-4-371. **\$100,000**.
- Dobermann, A., J. E. Specht, D. Walters, R. A. Drijber, T. J. Arkebauer, J. L. Lindquist, K. G. Cassman and H. Yang. 2005-2006. Coordination of management practices enhancing total efficiency. Foundation for Agronomic Research and the United Soybean Board. **\$37,000**.
- Dobermann, A., T. Arkebauer, K. Cassman, J. Lindquist, R. Drijber, J. Specht, D. Walters and H. Yang. 2000-2004. Ecological intensification of irrigated corn and soybean systems. Funding provided by PPI (Potash and Phosphorous Institute), IMC (International Minerals and Chemical), FFF (Fluid Fertilizer Foundation), and the National Corn Growers Association. **\$210,000**.
- Cassman, K. G., T. Arkebauer, R. Drijber, J. Lindquist, L. Nelson, K. Russell, J. Specht, S. Verma, and D. Walters. 2001-2003. Carbon Sequestration Potential of Irrigated Corn Systems. Nebraska Corn Board. **\$102,300**.
- Dieleman, J. A., J. L. Lindquist, and G. A. Johnson. 2000-2002. Post-control weed competitiveness as input into a weed management DSS. USDA-NCIPM Program, **\$82,879**; \$30,000 subcontracted to

Lindquist at UNL.

Maxwell, B. D., M. A. Jasieniuk, and J. L. Lindquist. 1997-1999. Reducing site-to-site and year-to-year variation in crop yield loss functions. USDA-NRI Weed Science Program, **\$120,000**; \$20,248 subcontracted to Lindquist at UNL.

Mortensen, D. A., J. L. Lindquist, and B. E. Johnson. 1995-1998. An ecophysiology approach to understanding maize tolerance and weed suppressive ability. USDA-NRI Biology of Weedy and Invasive Plants Program, **\$107,000**.

## **Graduate Student Advising**

*Students Advised or Co-advised* (Degree, Title, Graduation Date):

1. Samantha Isaacson, M.S. Johnsongrass demography, genetics, and control. May 2021.
2. Don Treptow, M.S. Johnsongrass demographics. May 2019.
3. Salvador Ramirez, M.S. (co-advised with Rhae Drijber). Ecosystem benefits of cover crops in organic cropping systems. December 2018.
4. John Laborde. PhD. Conservation agriculture in Nepal. August 2018.
5. Jeremie Kouame, M.S. Influence of multispecies interference from common ragweed and common waterhemp on soybean growth and yield under variable water supply in Nebraska. May 2018.  
Fulbright Scholar
6. Ethann Barnes, M.S. (co-advised with Amit Jhala). Soybean – common ragweed competition under varying irrigation supply. December 2016.
7. Dongliang Qi, visiting PhD. Northwest A&F University, Shaanxi, China. Ecophysiology of soybean and common waterhemp competition for soil water. December 2016.
8. Rodrigo Werle. PhD. ALS resistance in shattercane and johnsongrass: Current status and future predictions. May 2016.
9. Angela Tran. PhD. Diverse cover crop strategies for improved yield and weed suppression in organic cropping systems for the western corn belt. May 2016. NSF Graduate Fellow
10. Jared Schmidt. PhD. Pollen-mediated gene flow from sorghum to shattercane. Terminated early 2018.
11. Chengchou Han. M. S. (co-advised with Steve Young). Ecology of musk thistle invasion in the great plains. December 2012.
12. Rodrigo Werle. M. S. Potential for winter annual weeds to increase soybean cyst nematode populations in Nebraska. December 2012.
13. Sam Wortmann. PhD. Ecological management strategies for organic farming: effects of cover crop diversity, termination method, and soil-borne fungi on weed populations and soil properties in Eastern Nebraska. May 2012.

14. Nabaraj Banjara. M. S. Demography of velvetleaf in corn and soybean as influenced by *F. lateritium*. Expected December 2011 - AWOL.
15. Jared Schmidt. M. S. The rate of shattercane x sorghum hybridization in situ. August 2011.
16. Logan Vaughn. M. S. Effect of soil water availability on corn velvetleaf interference. August 2009.
17. Lily Sahoo. M. S. Effect of transgenes from sorghum on the fitness of shattercane × sorghum hybrids. November 2008.
18. Jane A. Okalebo. M. S. The influence of *Fusarium* species on the population biology of velvetleaf (*Abutilon theophrasti*) and its implications for integrated weed management. September 2008.
19. Kimberly D. Bonifas (Pavelka). M. S. Biomass partitioning to root versus the shoot in corn and velvetleaf. December 2003.
20. Brescia R. M. Terra. M. S. Effects of velvetleaf on corn yield following exposure to sublethal doses of three postemergence herbicides. August 2003.
21. Sean P. Evans. M. S. (co-advised with Stevan Knezevic). Effects of varying nitrogen supply on the critical period for weed control in corn (*Zea mays* L.). September 2001.
22. Darren S. Barker. M. S. The effects of nitrogen on corn-velvetleaf interference. August 2001.

***Student Committee Service*** (Degree, Title, Graduation Date):

1. Jake Ziggafos, M.S. Genetics of johnsongrass. Terminated July 2018.
2. Luqi Li, PhD Control and competitiveness of yellow nutsedge in Kentucky bluegrass turf. May 2019.
3. Nicolas Cafaro, PhD Sustainable intensification of soybean production. December 2018.
4. Feyera Liben, PhD. Conservation agriculture in Africa. August 2018.
5. Luqi Li, M.S. Improving establishment of seeded buffalograss. May 2016.
6. Zahoor Ahmad Ganie. PhD. Enhanced weed management using pre-packaged herbicide tank-mixtures in herbicide-resistant corn. August 2016.
7. Debalin Sarangi. PhD. Glyphosate-resistant common waterhemp in Nebraska: Biology, gene flow. May 2016.
8. Elizabeth Jeske. PhD. Seasonal dynamics of the soil microbial community. Completed Dec. 2012.
9. Mitch Novacek. M. S. Twin-row production and optimal plant population for modern maize hybrids. August 2011.
10. Venkatarao Mannam. M.S. Critical period of control for winter annual weeds in a corn-soybean cropping system and water use coefficients of nine weed species. August 2011.



11. Sam Wortmann. M. S. A comparison of yield, soil fertility and weed communities in long-term organic and conventional crop rotations. May 2009.
12. Travis C. Gustafson. M. S. Effects of early season insect defoliation on the critical time for weed removal in soybean. April 2005.
13. Shawn M. Hock. M.S. Competitiveness of major weed species in soybean (*Glycine max* L.). November 2004.
14. Aaron L. Waltz. M. S. Glyphosate efficacy with varying time of day applications. May 2001.
15. Michael G. Burton. PhD. Effects of soil and landscape characteristics on the population dynamics of wild *Helianthus annuus* L. December 2000.
16. Jess J. Spotanski. M. S. Duration of weed interference in corn (*Zea mays*). December 2000.
17. Samba Traore. PhD. Effects of genotypes and weed removal on the competitive ability of grain sorghum. May 1999.
18. Mark T. Langrud. M. S. Row spacing effects on crop growth, weed suppression, and nitrogen use in corn (*Zea mays* L.). December 1998.

### **Research Reports and Extension Presentations**

- Wortman, S. and J. Lindquist. 2012. Effective management of cover crops. Proceedings of the UNL 2012 Crop Production Clinics.
- S. E. Wortman, J. L. Lindquist, C.A. Francis, R. Drijber, and M. Bernards. 2011. "Mulching Cover Crop Mixtures to Increase Weed Suppression, Soil Nitrogen Availability, Soil Moisture, and Grain Yield." Cover Crops. Ed. J. Quinn. University of Nebraska – Lincoln. 31 January 2011  
<<http://organic.unl.edu/covercrops.shtml>>.

### **Abstracts**

- Mirsky, S. B., J.K. Norsworthy, A.S. Davis, M.V. Bagavathiannan, S.C. Beam, J.A. Bond, K. Bradley, W.S. Curran, J. Evans, W. Everman, M.L. Flessner, G. Frisvold, N.R. Jordan, L.M. Lazaro, J. Lindquist, L.S. Shergill, L.E. Steckel, M.J. VanGessel. 2019. Eliminating weed seeds at soybean harvest: Lessons learned from the Area-Wide IWM team. Proceedings of the Weed Science Society of America.
- Lazaro, L.M., J. Evans, J. K. Norsworthy, S. B. Mirsky, A. S. Davis, K. Bradley, L. E. Steckel, M. V. Bagavathiannan, J. A. Bond, J. Lindquist, N. R. Jordan, M. L. Flessner, M. J. VanGessel, W. Everman, W. S. Curran, N. E. Korres. 2019. Weed seed rain phenology: An area-wide approach. Proceedings of the Weed Science Society of America.
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