John L. Lindquist, PhD
Department of Agronomy and Horticulture
University of Nebraska
105C Kiesselbach Crops Research Lab
Lincoln NE 68583-0817
wk:402-472-2771; FAX:402-472-7904
jlindquist1@unl.edu

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, 7th 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_2 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 aretmisifolia* 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 gluphosinate-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

70. Evans, S. P., S. Z. Knezevic, J. L. Lindquist, and C. A. Shapiro. 2003. Influence of nitrogen and duration of weed interference on corn growth and development. Weed Science 51:546-556. (J. Series No. 13889) http://digitalcommons.unl.edu/agronomyfacpub/409

71. Evans, S. P., S. Z. Knezevic, J. L. Lindquist, C. A. Shapiro, and E. E. Blankenship. 2003. Nitrogen application influences the critical period for weed control in corn. Weed Science 51:408-417. (J. Series No. 13888) http://digitalcommons.unl.edu/agronomyfacpub/410

72. Knezevic, S. Z. S. P. Evans, E. Blankenship, R. Van Acker, and J. L. Lindquist. 2002. Critical period of weed control: The concept and data analysis. Weed Science 50:773-786. (J. Series No. 13465) http://digitalcommons.unl.edu/agronomyfacpub/407

73. Murphy, C. A. and J. L. Lindquist. 2002. Growth response of velvetleaf to three post emergence herbicides. Weed Science 50:364-369. (J. Series No. 13454) http://digitalcommons.unl.edu/agronomyfacpub/408

74. Traore, S., J. L. Lindquist, A. R. Martin, D. A. Mortensen, and S. C. Mason. 2002. Comparative ecophysiology of grain sorghum and *Abutilon theophrasti* in monoculture and in mixture. Weed Research 42:65-75.

75. Lindquist, J. L. 2001. Light-saturated CO_2 assimilation rates of corn and velvetleaf in response to leaf nitrogen and development stage. Weed Science 49:706-710. http://digitalcommons.unl.edu/agronomyfacpub/405

76. Lindquist, J. L. 2001. Performance of INTERCOM for predicting *Zea mays* - *Abutilon theophrasti* interference across the north central USA. Weed Science 49:195-201. http://digitalcommons.unl.edu/agronomyfacpub/406

77. Lindquist, J. L. and D. A. Mortensen. 1999. Ecophysiological characteristics of four maize hybrids and *Abutilon theophrasti*. Weed Research 39:271-285.

78. Lindquist, J. L., D. A. Mortensen, P. Westra, W. J. Lambert, T. T. Bauman, J. C. Fausey, J. J. Kells,

S. J. Langton, R. G. Harvey, B. H. Bussler, K. Banken, S. Clay, and F. Forcella. 1999. Stability of corn (*Zea mays*) - foxtail (*Setaria* spp.) interference relationships. Weed Science 47:195-200.

79. Lindquist, J. L., D. A. Mortensen, and B. E. Johnson. 1998. Mechanisms of corn tolerance and velvetleaf suppressive ability. Agronomy Journal 90:787-792.

80. Lindquist, J. L. and D. A. Mortensen. 1998. Tolerance and velvetleaf (*Abutilon theophrasti*) suppressive ability of two old and two modern corn (*Zea mays*) hybrids. Weed Science 46:569-574.

81. Lindquist, J. L., J. A. Dieleman, D. A. Mortensen, G. A. Johnson, and D. Y. Pester-Wyse. 1998. Economic importance of managing spatially heterogeneous weed populations. Weed Technology 12:7-13.

82. Lindquist, J. L., B. D. Maxwell, and T. Weaver. 1996. Potential for controlling the spread of *Centaurea maculosa* with grass competitors. Great Basin Naturalist 56(3):267-271.

83. Lindquist, J. L. and M. J. Kropff. 1996. Applications of an ecophysiological model for irrigated rice (*Oryza sativa*) - *Echinochloa* competition. Weed Science 44:52-56.

84. Lindquist, J. L., D. A. Mortensen, S. A. Clay, R. Schmenk, J. J. Kells, K. Howatt, and P. Westra. 1996. Stability of corn (*Zea mays*) - velvetleaf (*Abutilon theophrasti*) interference relationships. Weed Science 44:309-313.

85. Lindquist, J. L., B. D. Maxwell, D. D. Buhler and J. L. Gunsolus. 1995. Modeling the population dynamics and economics of velvetleaf (*Abutilon theophrasti*) control in a corn (*Zea mays*) - soybean (*Glycine max*) rotation. Weed Science 43(2):269-275.

86. Lindquist, J. L., B. D. Maxwell, D. D. Buhler and J. L. Gunsolus. 1995. Velvetleaf (*Abutilon theophrasti*) recruitment, survival, seed production and interference in soybean (*Glycine max*). Weed Science 43(2):226-232.

87. Kropff, M. J., K. Moody, J. L. Lindquist, T. Migo and F. Fajardo. 1994. Models to predict yield loss due to weeds in rice ecosystems. Philippine Journal of Weed Science, Special Issue 29-44.

88. Lindquist, J. L., D. Rhode, K. J. Puettmann and B. D. Maxwell. 1994. The influence of plant population spatial arrangement on individual plant yield. Ecological Applications 4(3):518-524. http://digitalcommons.unl.edu/agronomyfacpub/380

89. Puettmann, K. J., D. Rhode, B. D. Maxwell and J. Lindquist. 1993. An improved measure of angular dispersion in plant neighborhoods. American Midland Naturalist 130:401-404. http://digitalcommons.unl.edu/agronomyfacpub/379

90. Lindquist, J. L., P. K. Fay, and J. E. Nelson, 1989. Teaching weed identification at twenty U. S. Universities. Weed Technology 3:186-188.

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

91. Lindquist, J. L. and S. Z. Knezevic. 2001. Quantifying crop yield response to weed population: Applications and limitations. *Biotic Stress and Yield Loss*. Pages 205-232, *in* Peterson R. K. D. and Higley, L. G. (eds.), CRC Press, Boca Raton, FL.

92. Lindquist, J. L. Mechanisms of crop loss due to weed competition. 2001. *Biotic Stress and Yield Loss*. Pages 233-253, *in* Peterson R. K. D. and Higley, L. G. (eds.), CRC Press, Boca Raton, FL.

93. Martin, A. R., D. A. Mortensen, and J. L. Lindquist. 1998. Decision support models for weed management: in-field management tools. Pages 363-369, *in* Hatfield, J. L., D. D. Buhler, and B. A. Stewart (eds.), Integrated Weed and Soil Management. Ann Arbor Press, Inc., Chelsea, MI.

94. Lindquist, J. L., and M. J. Kropff. 1997. Improving rice tolerance to barnyardgrass through early crop vigour:simulations with INTERCOM. *in* Kropff, M. J., P. S. Teng, P. K. Aggarwal, J. Bouma, B. A. M. Bouman, J. W. Jones, and H. H. van Laar. Applications of systems approaches at the field level. Systems approaches for sustainable agricultural development series, no. 6. Kluwer Academic Publishers, Dordrecht, the Netherlands, pp. 53-62.

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.

97. Dobermann, A., D. Walters, F. Legoratta, T. Arkebauer, K. Cassman, R. Drijber, J. Lindquist, J. Specht, and H. Yang. 2005. Unlocking the secrets of carbon and nitrogen cycling in continuous corn and corn-soybean systems. In: Proc. 2005 Fluid Forum, Vol. 22 (CD-ROM). Fluid Fertilizer Foundation, Manhattan, KS.

98. Dobermann, A., D. Walters, F. Legoratta, T. Arkebauer, K. Cassman, R. Drijber, J. Lindquist, J. Specht, and H. Yang. 2005. Unlocking the secrets of carbon/nitrogen cycling. Fluid Journal 13(3):8-10.

99. Arkebauer, T., A. Dobermann, K. Cassman, R. Drijber, J. Lindquist, J. Specht, D. Walters, and H. Yang. 2004. N-use efficiency improves in ecological intensification project. Fluid Journal, Fall 2004, 17-19.

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 34th 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. http://digitalcommons.unl.edu/agronomyfacpub/320

102. Dobermann, A., T. Arkebauer, K.G. Cassman, R. A. Drijber, J.L. Lindquist, J.E. Specht, D.T. Walters, H. Yang, D. Miller, D. L. Binder, G. Techmeier, R. B. Ferguson and C. S. Wortmann. 2003. Understanding corn yield potential in different environments. In:Murphy, L. S. (Ed.), Fluid focus: the third decade. Proceedings of the 2003 Fluid Forum, Vol. 20. Fluid Fertilizer Foundation, Manhattan KS pp. 67-82. http://digitalcommons.unl.edu/agronomyfacpub/317

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.

106. Dobermann, A., T. Arkebauer, K.G. Cassman, R. A. Drijber, J. Lindquist, S. Madhavan, J. Markwell, L. Nelson, J.E. Specht, D.T. Walters, H.S. Yang, B. Amos, D.L. Binder, C. Murphy, and G. Teichmeier. 2002. Corn yield potential and optimal soil productivity in irrigated corn/soybean systems. p. 65-85. *In* L.S. Murphy (ed.) Proceedings of the 2002 Fluid Forum, Vol. 19. Fluid Fertilizer Foundation, Manhattan,KS. http://digitalcommons.unl.edu/agronomyfacpub/315

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 3rd 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 Ziggafoos, 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 Nebrsaka: 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.

Mirsky, S., J. K. Norsworthy, A. S. Davis, M. V. Bagavathiannan, 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. A national assessment of cover crops in an IWM program. Proceedings of the Weed Science Society of America.

Treptow,D. G., R. Werle, A. Jhala, M. Yerka, B. Tehnhumberg, and J. Lindquist. 2018. Time of johnsongrass (*Sorghum halepense*) seedling emergence in Nebraska. Proceedings of the North Central Weed Science Society.

Treptow,D. G., R. Werle, A. Jhala, M. Yerka, B. Tehnhumberg, and J. Lindquist. 2018. Post-dispersal fate of johnsongrass (*Sorghum halepense*) seeds in Nebraska. Proceedings of the North Central Weed Science Society.

Treptow,D. G., R. Werle, A. Jhala, M. Yerka, B. Tehnhumberg, and J. Lindquist. 2018. Johnsongrass (*Sorghum halepense*) demography in Nebraska. Proceedings of the North Central Weed Science Society.

Treptow, D., R. Werle, A. J. Jhala, M. Yerka, B. Tenhumberg, and J. Lindquist. 2017. Density-dependent johnsongrass seed production under different cropping systems. Proceedings of the North Central Weed Science Society.

Treptow, D., R. Werle, A. J. Jhala, M. Yerka, B. Tenhumberg, and J. Lindquist. 2017. Post-dispersal seed fate and time of emergence of johnsongrass in Nebraska. Proceedings of the North Central Weed Science Society.

Ziggafoos, J., R. Werle, J. Lindquist, A. J. Jhala, D. L. Hyten, and M. Yerka. 2017. Targeted sequencing of SSR markers and ALS-herbicide resistance alleles in grain sorghum and weedy relatives. Proceedings of the North Central Weed Science Society.

Barnes, E. R., R. Werle, L. Sandell, J. Lindquist, S. Z. Knezevic, P. H. Sikkema, and A. Jhala. 2017. Modeling emergence pattern of common ragweed influenced by spring tillage in Nebraska. Proceedings of the North Central Weed Science Society.

Ziggafoos, J. J., R. Werle, A. Jhala, J. Lindquist and M. K. Yerka. 2017. Novel molecular markers for monitoring the gene flow from herbicide-resistant crops to closely related species. Proceedings of the Weed Science Society of America.

Barnes, E., A. Jhala, S. Knezevic, P. H. Sikkema and J. Lindquist. 2017. Effect of common ragweed on soybean growth and yield. Proceedings of the Weed Science Society of America.

Werle, R., B. Tenhumberg and J. L. Lindquist. 2016. Modeling shattercane population dynamics in a herbicide tolerant sorghum cropping system. Proceedings of the Weed Science Society of America.

Werle, R., R. L. Martins, L. Sandell and J. Lindquist. 2016. Plant size and ALS-inhibiting herbicide dose influence the control of ALS-resistant shattercane populations. Proceedings of the Weed Science Society of America.

Werle, R., A. J. Jhala, M. K. Yerka and J. L. Lindquist. 2016. Distribution and dose response of ALS-inhibiting herbicide resistant shattercane and johnsongrass populations from Kansas and Nebraska. Proceedings of the Weed Science Society of America.

Ganie, Z. A., L. Sandell, J. Lindquist, G. R. Kruger, M. Jugulam, D. B. Marx and A. J. Jhala. 2016. Integrated management of glyphosate-resistant giant ragweed with tillage and herbicides in corn. Proceedings of the Weed Science Society of America.

Sarangi, D., S. Z. Knezevic, J. Lindquist, S. Irmak and A. J. Jhala. 2016. Effect of water stress on growth and seed production of glyphosate-resistant and –susceptible common waterhemp. Proceedings of the Weed Science Society of America. Proceedings of the Weed Science Society of America.

Werle, R., K. Begcy, M. K. Yerka and J. L. Lindquist. 2016. Target-site resistance to ALS-inhibitors in weedy sorghum species.

Barnes, E. R., A. Jhala, S. Knezevic, P. H. Sikkema and J. L. Lindquist. 2016. Common ragweed interference in Nebraska soybeans. Proceedings of the Weed Science Society of America.

Mirsky, S. B., A. Davis, J. K. Norsworthy, M. V. Bagavathiannan, J. A. Bond, K. W. Bradley, W. S. Curran, D. Ervin, W. J. Everman, M. L. Flessner, G. Frisvold, A. G. Hager, B. Hartzler, N. Jordan, J. L. Lindquist, B. Schulz, L. Steckel, and M. VanGessel. 2016. An integrated weed management approach to addressing the multiple herbicide-resistant weed epidemic in three major US field crop production regions. Proceedings of the Weed Science Society of America.

Ziggafoos, J. J., R. Werle, A. J. Jhala, J. Lindquist, B. Tenhumberg, J. Mower and M. Yerka. 2016. A regional monitoring program for herbicide resistance in shattercane and johnsongrass following commercialization of Inzen sorghum hybrids. Proceedings of the North Central Weed Science Society.

Barnes, E., P. H. Sikkema, S. Z. Knezevic, J. Lindquist and A. Jhala. 2016. Preplant burndown herbicide

options for control of glyphosate-resistant common ragweed in gluphosinate-resistant soybean. Proceedings of the North Central Weed Science Society.
Sarangi, D., A. J. Tyre, E. L. Patterson, T. A. Gaines, S. Irmak, S. Knezevic, J. Lindquist and A. J. Jhala. 2016. Modelling pollen-mediated gene flow from herbicide-resistant weeds: common waterhemp as an example. Proceedings of the North Central Weed Science Society.
Barnes, E. R., P. H. Sikkema, S. Z. Knezevic, J. L. Lindquist, and A. J. Jhala. 2015. Control of glyphosate-resistant common ragweed (*Ambrosia artemisiifolia* L.) in glufosinate-resistant soybean. Proceedings of the North Central Weed Science Society.
Sarangi, D., L. D. Sandell, S. Z. Knezevic, J. L. Lindquist, S. Irmak, and A. J. Jhala. 2015. Season-long control of glyphosate-resistant common waterhemp as influenced by split-applications of very long chain fatty acid synthesis inhibitors in soybean. Proceedings of the North Central Weed Science Society.
Ganie, Z. A., J. L. Lindquist and A. J. Jhala. 2015. Pollen-mediated gene flow from glyphosate-resistant to susceptible giant ragweed (*Ambrosia trifida*) under field conditions. Proceedings of the North Central Weed Science Society.
Sarangi, D., S. Z. Knezevic, J. L. Lindquist, S. Irmak, and A. J. Jhala. 2015. Pollen-mediated gene flow from glyphosate-resistant to susceptible common waterhemp under field conditions. Proceedings of the North Central Weed Science Society.
Werle, R, B. Tenhumberg and J. L. Lindquist. 2015. Modeling shattercane population dynamics in a herbicide-tolerant sorghum cropping system. Proceedings of the North Central Weed Science Society.
Barnes, E. R., R. Werle, L. D. Sandell, P. H. Sikkema, S. Z. Knezevic, J. L. Lindquist and A. J. Jhala. 2015. Influence of spring tillage on common ragweed (*Ambrosia artemisiifolia* L) emergence in Nebraska. Proceedings of the North Central Weed Science Society.
Werle, R. and J. L. Lindquist. 2015. Weed management in Inzen sorghum. Proceedings of the North Central Weed Science Society.
Werle, R., B. Tenhumberg and J. L. Lindquist. 2015. Modeling weedy sorghum population dynamics in a stochastic herbicide-tolerant sorghum cropping system. Agronomy Abstracts.
Florence, A. and J. L. Lindquist. 2015. Cover crop mixture diversity and biomass production. Agronomy Abstracts.
Florence, A. and J. L. Lindquist. 2015. Cover crop mixture diversity and weed suppression. Agronomy Abstracts.
Werle, R., A. J. Jhala, M. K. Yerka and J. L. Lindquist. 2015. Distribution and dose response of ALS-inhibiting herbicide resistant shattercane and johnsongrass populations from Kansas and Nebraska. Proceedings of the Weed Science Society of America.
Werle, R., R. L. Martins, L. Sandell and J. L. Lindquist. 2015. Plant size and ALS-inhibiting herbicide dose influence the control of ALS-resistant shattercane populations. Proceedings of the Weed Science Society of America.
Werle, R., B. Tenhumberg and J. L. Lindquist. 2015. Modeling the evolution of shattercane resistance to ALS-inhibiting herbicides in an ALS-tolerant sorghum cropping system. Proceedings of the Weed Science Society of America.
Ganie, Z. A., L. Sandell, J. L. Lindquist, G. R. Kruger, M. Jugulam, D. B. Marx and A. J. Jhala. 2015. Integrated management of glyphosate-resistant giant ragweed with tillage and herbicides in corn. Proceedings of the Weed Science Society of America.
Sarangi, D., L. D. Sandell, S. Z. Knezevic, J. S. Aulakh, J. L. Lindquist, S. Irmak and A. J. Jhala. 2014. Glyphosate-resistant common waterhemp in Nebraska: Confirmation and control in soybean. Proceedings of the North Central Weed Science Society.
Werle, R., R. L. Martins, L. Sandell and J. L. Lindquist. 2014. ALS-inhibiting herbicide dose and plant size influence the control of ALS-resistant shattercane populations. Proceedings of the North Central Weed Science Society.
Ganie, Z. A., L. Sandell, J. L. Lindquist, G. R. Kruger, M. Jugulam, and A. J. Jhala. 2014. Integrated management of glyphosate-resistant giant ragweed with tillage and herbicides in soybean. Proceedings

of the North Central Weed Science Society.
Werle, R. A. J. Jhala, M. K. Yerka and J. L. Lindquist. 2014. Distribution of herbicide resistant shattercane and johnsongrass populations across Nebraska and Kansas. Agronomy Abstracts.
Sarangi, D., J. L. Lindquist, S. Irmak and A. J. Jhala. 2013. Response of glyphosate-susceptible and –resistant common waterhemp to water stress. Proceedings of the North Central Weed Science Society.
Werle, R., L. Sandell, S. Kaur, A. J. Jhala and J. L. Lindquist. 2013. Giant ragweed seed production and retention in soybean and field margins. Proceedings of the North Central Weed Science Society.
Schmidt, J. J., S. Sattler, D. Pilson, A. J. Lorenz, J. F. Pedersen and J. L. Lindquist. 2013. Fitness of sorghum, shattercane and their F2 hybrid progeny. Proceedings of the North Central Weed Science Society.
Werle, R., L. Sandell, M. L. Bernards, D. Buhler, R. G. Hartzler and J. L. Lindquist. 2013. Emergence time of summer and winter annual weeds in the Midwestern USA. Proceedings of the North Central Weed Science Society.
Werle, R., J. J. Schmidt, J. Laborde, A. M. Tran, C. Creech and J. L. Lindquist. 2013. Shattercane x ALS-tolerant sorghum F1 hybrid and shattercane interference in ALS-tolerant sorghum. Proceedings of the North Central Weed Science Society.
Schutte, B. J., S. E. Wortman, J. L. Lindquist and A. Davis. 2013. Maternal environment effects on phenolic defenses of velvetleaf (*Abutilon theophrasti*) seeds. Proceedings of the Weed Science Society of America.
Werle, R., M. L. Bernards, S. E. Sattler, and J. L. Lindquist. 2013. Susceptibility of shattercane x ALS resistant sorghum hybrids and their parents to rimsulfuron and nicosulfuron. Proceedings of the Weed Science Society of America.
Werle, R., L. Perez, L. Sandell, and J. Lindquist. 2013. Effect of tansymustard on subsequent corn establishment. Proceedings of the Weed Science Society of America.
Schmidt, J. J., S. E. Wortman and J. L. Lindquist. 2012. Allelopathy of sudangrass cover crop on green foxtail. Proceedings of the North Central Weed Science Society.
Schmidt, J. J., S. E. Sattler, A. J. Lorenz, J. F. Pedersen and J. L. Lindquist. 2012. Fitness of sorghum, shattercane and their F2 hybrid. Proceedings of the North Central Weed Science Society.
Werle, R., M. L. Bernards, L. J. Giesler and J. L. Lindquist. 2012. Fall weed management to limit SCN population build-up. Proceedings of the North Central Weed Science Society.
Werle, R., A. J. Tyre, M. L. Bernards, T. J. Arkebauer and J. L. Lindquist. 2012. Environmental triggers of winter annual weed emergence. Proceedings of the North Central Weed Science Society.
Lindquist, J. L. 2012. Maize-weed competition for soil resources. Proceedings of the 6th International Weed Science Congress, Hangzhou, Peoples Republic of China.
Lindquist, J. L. 2012. Pollen-mediated gene flow in sorghums: Implications for herbicide resistant sorghum. Proceedings of the 6th International Weed Science Congress, Hangzhou, Peoples Republic of China.
Werle, R., M. Bernards, T. Arkebauer and J. Lindquist. 2012. Emergence timing of winter annual weed species in Nebraska. Agronomy Abstracts.
Werle, R., L. Giesler, M. Bernards and J. Lindquist. 2012. Herbicide influence on soybean cyst nematode (*Heterodera glycines*) reproduction in henbit (*Lamium amplexicaule*) roots. Agronomy Abstracts.
Wood, T, R. Werle, C. Borman, C. Han, K. Koehler-Cole, K. Korus, D. Osantowski, E. Sonderegger, J. Wagnitz and J. Lindquist. 2012. Effects of density, species ratio and nitrogen supply on biomass accumulation of spring oats and field peas in sole and intercropping. Agronomy Abstracts.
Wortman, S. E., M. L. Bernards and J. L. Lindquist. 2012. Weed biomass and community response to cover crop mixture and termination method. Proceedings of the Weed Science Society of America. 52:353.
Schmidt, J. J., J. F. Pedersen, M. L. Bernards, A. J. Lorenz. J. L. Lindquist. 2012. Flowering synchrony of grain sorghum and shattercane. Proceedings of the Weed Science Society of America. 52:249.
Werle, R., L. J. Giesler, J. L. Lindquist and M. L. Bernards. 2012. Influence of herbicide application timing on soybean cyst nematode (*Heterodera glycines*) reproduction in henbit (*Lamium*

amplexicaule) roots. Proceedings of the Weed Science Society of America. 52:129.

Wortman, S. E., A. S. Davis, B. J. Schutte, J. L. Lindquist, J. Cardina, J. Felix, C. L. Sprague, J. Dille, A. 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 maize belt. Proceedings of the Weed Science Society of America. 52:121.

Han, C., S. L. Young, J. L. Lindquist. 2012. Invasiveness of musk thistle in cool and warm season perennial grass communities. Proceedings of the Weed Science Society of America. 52:93.

Lindquist, J. L. 2012. IWM: What the heck is that? Proceedings of the Northeast Weed Science Society.

Wortman, S. E., A. S. Davis, B. J. Schutte, J. Lindquist, J. Cardina, J. Felix, C. L. Sprague, A. Dille, A. H. M. Ramirez, and S. Clay. 2011. Regional-scale variation in giant ragweed and common sunflower demography. Proceedings of the North Central Weed Science Society. 66:49, 159.

Wortman, S. E. and J. Lindquist. 2011. Maximizing cover crop productivity for weed suppression. Proceedings of the North Central Weed Science Society. 66:50.

Werle, R., M. L. Bernards and J. Lindquist. 2011 Modeling the emergence pattern of winter annual weed species in Nebraska. Proceedings of the North Central Weed Science Society. 66:92.

Schmidt, J. J., J. F. Pedersen, M. L. Bernards, J. Lindquist and A. J. Lorenz. 2011. Synchrony of flowering in grain sorghum and shattercane. Proceedings of the North Central Weed Science Society. 66:98.

Wortman, S. E., A. S. Davis, B. J. Schutte, J. Lindquist, J. Cardina, J. Felix, K. Renner, C. L. Sprague, A. Dille, A. H. Ramirez, Graig Reicks and S. Clay. 2011. Regional-scale variation in demographic parameters of *Ambrosia trifida* and *Helianthus annuus*. Agronomy Abstracts.

Wortman, S. E., M. Bernards, R. Drijber, C. Francis and J. Lindquist. 2011. Impacts of cover crop diversity and termination method on organic grain crop performance. Agronomy Abstracts.

Wortman, S. E., R. Drijber and J. Lindquist. 2011. Relative influence of cover crop diversity and residue management on soil microbial community structure. Agronomy Abstracts.

Wortman, S. E., J. L. Lindquist, R. A. Drijber, M. L. Bernards, and C. A. Francis. 2011. Mulching cover crop mixtures to increase weed suppression, soil nitrogen availability, soil moisture and grain yield. MOSES Organic Farming Conference, La Crosse, WI.

Banjara, N., J. L. Lindquist, G. Yuen and R. Drijber. 2010. Demography of velvetleaf in corn and soybean as influenced by *Fusarium lateritium* inoculation. Proceedings of the North Central Weed Science Society 65:64.

Schmidt, J. J., J. F. Pedersen, M. L. Bernards, and J. L. Lindquist. 2010. Shattercane x sorghum hybridization in the field. Proceedings of the North Central Weed Science Society. 65:67.

Werle, R., L. Sandell, M. Bernards, J. Lindquist, D. D. Buhler, R. G. Hartzler. 2010. Developing a hydrothermal model to predict emergence of annual weed species in Iowa. Proceedings of the North Central Weed Science Society. 65:.

Lindquist, J. L., L. G. Vaughn, M. L. Bernards, and T. J. Arkebauer. 2010. Corn and velvetleaf (*Abutilon theophrasti*) water use efficiency. Agronomy Abstracts.

Schmidt, J. J., J. F. Pedersen, M. L. Bernards, and J. L. Lindquist. 2010. Shattercane x sorghum hybridization in the field. Agronomy Abstracts.

Schmidt, J. J. and J. L. Lindquist. 2010. Corn and velvetleaf (*Abutilon theophrasti*) transpiration in response to drying soil. Agronomy Abstracts.

Wortman, S. E., J. L. Lindquist, R. A. Drijber, M. L. Bernards, and C. A. Francis. 2010. Mulching Cover Crop Mixtures to Increase Weed Suppression, Soil Moisture and Grain Yield. Agronomy Abstracts.

Wortman, S. E., J. L. Lindquist, R. A. Drijber, M. L. Bernards, and C. A. Francis. 2010. Increasing Cover Crop Diversity and Weed Suppressiveness of Soils in Organic Cropping Systems. MOSES Organic Farming Conference, La Crosse, WI.

Schmidt, J. J., J. F. Pedersen, M. L. Bernards, and J. L. Lindquist. 2010. Rate of in situ shattercane x sorghum hybridization. Proceedings of the Weed Science Society of America.

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. Proceedings of the Weed Science Society of America.

Hein, G. L., J. Lindquist, M. Bernards, and L. Sandell. 2009. Doctor of plant health: a new interdisciplinary program for plant health practitioners. Proceedings of the North Central Weed Science Society. 64:33.

Wortman, S. E., J. L. Lindquist, R. A. Drijber, M. L. Bernards, and C. A. Francis. 2009. Increasing cover crop diversity and weed suppressiveness of soils in organic cropping systems. Proceedings of the North Central Weed Science Society. 64:66.

Schmidt, J. J., J. L. Lindquist, M. L. Bernards, and J. F. Pedersen. 2009. Rate of in situ shattercane x sorghum hybridization. Proceedings of the North Central Weed Science Society. 64:60.

Mannam, V. R., M. L. Bernards, J. L. Lindquist and T. J. Arkebauer. 2009. Determination of water use coefficients of seven weed species as affected by fraction transpirable soil water level and growth stage. Proceedings of the North Central Weed Science Society. 64:

Schmidt, J. J., L. Sahoo, J. L. Lindquist, D. J. Lee and J. F. Pedersen. 2009. Sorghum and shattercane hybridization: Implications for transgenic sorghum. WSSA Abstracts 62:251.

Vaughn, L. G., J. L. Lindquist, M. L. Bernards and T. J. Arkebauer. 2009. Corn (*Zea mays*) and velvetleaf (*Abutilon theophrasti*) water use efficiency. WSSA Abstracts 62:268.

Banjara, N., J. L. Lindquist and G. Yuen. 2008. Methods of culturing *Fusarium lateritium*. Proceedings of the North Central Weed Science Society 63:69.

Mannam, V. R., M. L. Bernards, and J. L. Lindquist. 2008. Removal timing of winter annual weeds in a no-till corn and soybean cropping system and its effect on soil water availability and yield. Proceedings of the North Central Weed Science Society 63:61. [Second place graduate student poster contest]

Schmidt, J. J., L. Sahoo, J. L. Lindquist, D. J. Lee and J. F. Pedersen. 2008. Relative fitness of shattercane, sorghum and their hybrids. Proceedings of the North Central Weed Science Society 63:101. [First place graduate student paper contest]

Vaughn, L. G., J. L. Lindquist, M. L. Bernards and T. J. Arkebauer. 2008. Corn-velvetleaf interference under variable water supply. Proceedings of the North Central Weed Science Society 63:100.

Okalebo, J. A., J. L. Lindquist, G. Y. Yuen, R. A. Drijber and E. E. Blankenship. 2008. The role of plant pathogens in suppressing growth and development of *Abutilon theophrasti* (velvetleaf) Phytopathology 98(6):204.

Okalebo, J. A., J. L. Lindquist, G. Y. Yuen, R. A. Drijber and E. E. Blankenship. 2008. Can soil pathogenic fungi be used to suppress weedy plants in agroecosystems? Ecological Society of America, Milwaukee, WI, August 3-8, 2008.

Sahoo, L., J. L. Lindquist, D. J. Lee, J. F. Pedersen, R. Kaur, J. H. Wong, B. B. Buchanan and P. G. Lemaux. 2007. Effect of transgenes from sorghum on the fitness of shattercane x sorghum hybrids. Proceedings of the North Central Weed Science Society 62:45.

Schmidt, J. and J. L. Lindquist. 2007. Corn and velvetleaf transpiration in response to drying soil. Proceedings of the North Central Weed Science Society 62:62. [second place undergraduate poster contest]

Vaughn, L. G., J. L. Lindquist and M. L. Bernards. 2007. The effects of variable water supply on corn-velvetleaf interference. Proceedings of the North Central Weed Science Society 62:116.

Lizasao, J. I., K. J. Boote, J. W. Jones and J. L. Lindquist. 2007. Simulating per leaf dry weight and nitrogen concentration in maize. Agronomy Abstracts 331-10.

Okalebo, J. A., J. L. Lindquist, G. Yuen, R. Drijber and E. Blankenship. 2007. Weed suppressive soils in eastern Nebraska. Agronomy Abstracts 152-5.

Okalebo, J. A., J. L. Lindquist, G. Yuen, R. Drijber and E. Blankenship. 2007. Contribution of fungal pathogens to velvetleaf (*Abutilon theophrasti*) suppressiveness of eastern Nebraska soils. WSSA Abstracts 60:134. [Winner, Sigma Xi UNL Graduate Student Poster competition]

Okalebo, J., J. Lindquist, G. Yuen and R. Drijber. 2006. Can soil become biologically suppressive to velvetleaf? Proceedings of the North Central Weed Science Society 61:173.
Wang, G., M. E. McGiffen Jr, J. L. Lindquist, J. D. Ehlers, and I. Sartorato. 2006. Simulation study of the competitive ability of erect, semi-erect, and prostrate cowpea genotypes. HortScience 41:1044.
Yang, H. S., A. Dobermann, K. G. Cassman, K. G. Hubbard, T. Arkebauer, S. Verma and D. Walters. 2004. Proceedings of the 2003 Biological Systems Simulation Conference. March 8-10, 2004, Gainesville FL. Pp 83-84.
Yang, H. S., K. G. Cassman, A. Dobermann, D. Walters, J. Lindquist and T. Arkebauer. 2003. Comparison and hybridization of two approaches for maize simulation. Proceedings of the 2003 Integrated Biological Systems Simulation Conference. April 14-16, 2003. San Antonio TX. Pp. 20-21.
Fargo, R. R., J. L. Lindquist, D. A. Mortensen, and D. T. Walters. 2002. The effect of habitat heterogeneity, characterized by soil organic carbon, on growth and reproductive fitness of common sunflower. Proceedings of the North Central Weed Science Society.
Pavelka, K. D. and J. L. Lindquist. 2002. The effects of nitrogen supply on root:shoot ratio in corn and velvetleaf. Proceedings of the North Central Weed Science Society.
Pavelka, K. D. and J. L. Lindquist. 2002. Using leaf nitrogen content to predict biomass allocation patterns in corn and velvetleaf. Proceedings of the North Central Weed Science Society.
Hock, S. M., S. Z. Knezevic, A. R. Martin, and J. L. Lindquist. 2002. Competitiveness of selected weed species in soybean. Proceedings of the North Central Weed Science Society.
Hock, S. M., S. Z. Knezevic, A. R. Martin, and J. L. Lindquist. 2002. Velvetleaf growth in monoculture and in soybean. Proceedings of the North Central Weed Science Society.
Barker, D. C., J. L. Lindquist, and D. T. Walters. 2002. Corn and velvetleaf nitrogen uptake and use efficiency: implications for competition. WSSA Abstracts. 42:46-47.
Pavelka, K. D. and J. L. Lindquist. 2001. The effects of nitrogen supply on root:shoot ratio in corn and velvetleaf. Proceedings of the North Central Weed Science Society.
Cassman, K. G., T. J. Arkebauer, A. Dobermann, J. L. Lindquist, J. P. Markwell, L. A. Nelson, J. E. Specht and D. T. Walters. 2001. Understanding yield potential and optimal soil productivity in irrigated maize systems. Agronomy Abstracts
Yang, H., K. G. Cassman, A. Dobermann, J. Kiniry, J. L. Lindquist, T. Sinclair, D. T. Walters. 2001. Simulating Maize Yields that Approach Yield Potential. Agronomy Abstracts.
Walters, D. T., A. Dobermann, J. L. Lindquist, D. Binder, G. Teichmeier. 2001. Nitrogen use efficiency of irrigated maize under intensive and conventional best management. Agronomy Abstracts.
Walters, D. T., J. L. Lindquist, K. G. Cassman, A. Dobermann, L. A. Nelson, K. Russell, D. Binder, G. Teichmeier. 2001. Maize performance under intensive and conventional management systems. Agronomy Abstracts.
Van Wychen, L. R., A. J. Bussan, B. Maxwell, E. C. Luschei, and J. Lindquist. 2001. Parameterizing INTERCOM for simulation of *Triticum aestivum* and *Avena fatua* interactions in Montana. WSSA Abstracts. 41:109.
Evans, S. P., S. Z. Knezevic, J. L. Lindquist, and C. A. Shapiro. 2001. Critical period of weed control in corn as influenced by nitrogen. WSSA Abstracts. 41:39-40.
Barker, D. C. and J. L. Lindquist. 2000. Effect of nitrogen supply on the comparative productivity of corn and velvetleaf. Proceedings of the North Central Weed Science Society 55:88.
Waltz, A. L., A. R. Martin, F. W. Roeth, and J. L. Lindquist. 2000. Glyphosate efficacy with varying time of day applications. Proceedings of the North Central Weed Science Society 55:36-37.
Barker, D. C., J. L. Lindquist, A. R. Martin, and D. T. Walters. 1999. Effects of nitrogen supply on corn-velvetleaf interference. Proceedings of the North Central Weed Science Society. 54:168.
Burton, M. G., D. A. Mortensen, J. L. Lindquist, and A. R. Martin. 1999. The influence of soil characteristics and location on the fitness and control of common sunflower (*Helianthus annuus* L.). WSSA Abstracts 39:34.
Fischer, D. W., R. G. Harvey, T. Bauman, S. Hart, G. Johnson, J. Kells, J. Lindquist, and P. Westra.

1999. Stability of common lambsquarters (*Chenopodium album*)-field corn interference. WSSA Abstracts 39:120.
Knezevic, S. and J. Lindquist. 1999. Analyzing data on critical period of weed control. Proceedings of the North Central Weed Science Society. 54:173.
Lindquist, J. L. and D. T. Walters. 1999. Can SPAD be used to infer a reduction in potential CO_2 assimilation in maize? Agronomy Abstracts, p. 246
Lindquist, J. L. and S. Z, Knezevic. 1999. Weed management decision rules and data needs. Proceedings of the North Central Weed Science Society. 54:178.
Markwell, J., D. T. Walters, and J. L. Lindquist. 1999. Consistency between SPAD-502 meter output and specific leaf chlorophyll. Agronomy Abstracts, p. 246.
Spotanski, J. J., A. R. Martin, F. W. Roeth, and J. L. Lindquist. 1999. Corn yield as influenced by duration of weed interference. Proceedings of the North Central Weed Science Society. 54:64-65.
Walters, D. T., J. L. Lindquist, K. G. Cassman, and G. Techmeier. 1999. Measurement of maize specific leaf nitrogen with the SPAD-502 and its relationship to yield potential. Agronomy Abstracts, p. 246.
Waltz, A. L., A. R. Martin, F. W. Roeth, and J. L. Lindquist. 1999. Glyphosate efficacy with varying time of day applications. Proceedings of the North Central Weed Science Society. 54:141-142.
Spotanski, J. J., A. R. Martin, F. W. Roeth, and J. L. Lindquist. 1998. Influence of weed removal timing on corn yield. Proceedings of the North Central Weed Science Society.
Burton, M. G., D. A. Mortensen, and J. L. Lindquist. 1998. Influence of field-scale spatial heterogeneity and herbicide management on the population dynamics of common sunflower (*Helianthus annuus* L.) and grasses. WSSA Abstracts 38:75.
Mortensen, D. A., L. G. Higley, J. A. Dieleman, J. L. Lindquist, and D. L. Holshouser. 1998. Ecological principles underlying integrated weed management systems. WSSA Abstracts 38:62.
Murphy, C. and J. L. Lindquist. 1998. Growth response of velvetleaf (*Abutilon theophrasti*) to three postemergence herbicides. WSSA Abstracts 38:42.
Lindquist, J. L. 1997. Instability of corn-weed interference relationships: where do we go from here? Proceedings of the North Central Weed Science Society.
Lindquist, J. L. and D. A. Mortensen. 1997. Mechanisms of maize tolerance and velvetleaf (*Abutilon theophrasti* Medik.) suppressive ability. WSSA Abstracts 37:53.
Lindquist, J. L. and D. A. Mortensen. 1996. Tolerance and weed suppressive ability of four maize hybrids. Agronomy Abstracts, p. 51.
Lindquist, J. L., D. A. Mortensen, S. A. Clay, R. Schmenk, J. J. Kells, and P. Westra. 1995. Stability of corn-velvetleaf (*Abutilon theophrasti* Medic.) interference relationships across years and locations. WSSA Abstracts 35:49.
Lindquist, J. L., B. D. Maxwell, D. D. Buhler, J. L. Gunsolus and D. A. Mortensen. 1994. Potential economic and environmental benefits from biological control of velvetleaf in a corn - soybean rotation. Agronomy Abstracts, p. 89.
Lindquist, J. L., B. D. Maxwell and D. D. Buhler. 1993. Recruitment, survival, seed production and competitive effects of velvetleaf in soybean. Proceedings of the North Central Weed Science Society. 43:94-95
Lindquist, J. L., B. D. Maxwell and D. D. Buhler. 1993. The population dynamics of velvetleaf in a corn-soybean rotation. Bulletin of the Ecological Society of America 74(2):332
Lindquist, J. L., D. Rhode, K. J. Puettmann, B. D. Maxwell and D. D. Stuthman. 1992. The influence of plant population spatial arrangement on individual plant biomass and seed production. Agronomy Abstracts, p. 50.
Lindquist, J. L. and B. D. Maxwell. 1991. The horizontal dispersal pattern of weed seed surrogates caused by farm machinery. Proceedings of the North Central Weed Science Society 46:108-109.
Lindquist, J. L., P. K. Fay, and E. S. Davis. 1991. The light requirement of dormant spotted knapweed seeds in soil. Proceedings of the Western Society of Weed Science, p. 68.