

**RODRIGO WERLE, Ph.D.*****Curriculum Vitae***

Assistant Professor & Extension Cropping Systems Weed Scientist  
Department of Agronomy, University of Wisconsin-Madison

**ADDRESS**

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**EDUCATION AND TRAINING**

Ph.D. May 2016	University of Nebraska-Lincoln	Major: Agronomy Specialization: Weed Science
M.S. December 2012	University of Nebraska-Lincoln	Major: Agronomy Specialization: Weed Science
B.S. December 2009	São Paulo State University, Brazil	Major: Agronomy

**PROFESSIONAL EXPERIENCE**

- *Assistant Professor and Extension Cropping Systems Weed Scientist (Appointment: 70% Extension and 30% Research)*, Department of Agronomy, University of Wisconsin-Madison, January, 2018 to current. Goal: conduct innovative and collaborative research and extension programming in weed biology, ecology and management in annual row crop production systems of Wisconsin and beyond.
- *Adjunct Assistant Professor*, Department of Agronomy and Horticulture, University of Nebraska-Lincoln. June, 2018 to current.
- *Assistant Professor and Cropping Systems Specialist (Appointment: 50% Extension and 50% Research)*, West Central Research and Extension Center & Department of Agronomy and Horticulture, University of Nebraska-Lincoln, April, 2016 to December, 2017. Goal: conduct innovative and collaborative research and extension programming to increase profitability, productivity and sustainability of irrigated and dryland cropping systems with limited water in Nebraska and beyond.
- *Graduate Research Assistant*, Department of Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE, May, 2010 to April, 2016. Masters and Doctoral research in Weed Biology and Ecology, Integrated Weed Management, Herbicide Resistance Evolution and Management, and Weed Population Dynamics Modeling under Dr. John Lindquist's supervision.
- *Undergraduate Senior Intern*, Department of Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE, 2009. Field and greenhouse research in Weed Science under Dr. Mark Bernards' supervision.

- *Undergraduate Research Assistant*, College of Agricultural Sciences, São Paulo State University, Botucatu, SP, Brazil, 2005-2009. Field, greenhouse, and laboratory research in soil fertility and cropping systems under Dr. Ciro Rosolem's supervision.

## TEACHING EXPERIENCE

- UW-Madison Informal Prep Course for Weed Contest, Spring-Summer/2018, and Spring-Summer/2019.
- UNL AGRO 496/896 Prep Course for Weed Contest, Spring-Summer/2015.
- UNL AGRO 426/826 Invasive Plants Lab: Spring/2013, Spring/2014, and Spring/2015.
- UNL AGRI/NRES 103 Introduction to Agricultural and Natural Resource Systems Recitation, Fall/2013.

## ACADEMIC HONORS AND AWARDS

- Weed Science Society of America, **Outstanding Graduate Student Award**, 2016
- University of Nebraska-Lincoln Dean's Fellowship, 2014-2015 & 2015-2016
- Milton E. Mohr Award (Biotechnology Degree Program Recipient), 2014-2015 & 2015-2016.
- Department of Agronomy and Horticulture Graduate Student Conference Travel Grant, 2015.
- Honorable mention, Outstanding Graduate Research Assistant, University of Nebraska-Lincoln, 2015.
- Weed Science Society of America Meetings, 3<sup>rd</sup> Place Outstanding Poster Presentation, 2015.
- North Central Weed Science Society Meetings, 1<sup>st</sup> place Outstanding Poster Presentation, 2014.
- North Central Weed Science Society Meetings, 2<sup>nd</sup> place Outstanding Paper Presentation, 2014.
- North Central Weed Science Society Meetings, 2<sup>nd</sup> Place Team Quiz Bowl, 2014.
- North Central Weed Science Society Weed Contest, 3<sup>rd</sup> place Overall Graduate Team, 2014.
- North Central Weed Science Society, **Outstanding Graduate Student Award**, 2013.
- Weed Science Society of America, **Outstanding Paper in Weed Technology**, 2013.
- Widaman Trust Distinguished Graduate Assistant Award, 2013-2014.
- North Central Weed Science Society Weed Contest, 3<sup>rd</sup> place Overall Graduate Team, 2013.
- North Central Weed Science Society Contest, 1<sup>st</sup> place Team Sprayer Calibration, 2013.
- University of Nebraska Student Government, **Graduate Student of the Year**, 2012-2013.
- North Central Weed Science Society Meetings, 1<sup>st</sup> Place Outstanding Paper Presentation, 2012.
- North Central Weed Science Society Meetings, 1<sup>st</sup> Place Team Quiz Bowl, 2012.
- North Central Weed Science Society Weed Contest, 3<sup>rd</sup> place Overall Graduate Team, 2012.
- North Central Weed Science Society Weed Contest, 1<sup>st</sup> place Team Sprayer Calibration, 2012.
- APS North Central Division Meeting, 2<sup>nd</sup> place Graduate Student Poster Contest, 2011.

## PROFESSIONAL SOCIETY MEMBERSHIPS

- International Weed Science Society
- Weed Science Society of America
- North Central Weed Science Society
- Agronomy Society of America
- Crop Science Society of America

- Soil Science Society of America

## **SERVICE**

- University of Wisconsin-Madison Faculty Senate Agronomy Department Representative, 2019 to current.
- Ad hoc reviewer for Weed Science, PLOS ONE, Canadian Journal of Plant Science, and Planta Daninha.
- Member of the University of Wisconsin Integrated Crop and Pest Management Advisory Group, 2018 to present.
- Coach of the University of Wisconsin-Madison Badger Weeds Team, 2018 to present.
- Active member of the North Central Weed Science Society (NCWSS student weed contest volunteer [2017, 2018, 2019]; resident education chair [2019], undergraduate student poster contest chair [2019], graduate student poster contest chair [2018]; annual meeting Weed Biology, Ecology and Management section chair [2017]).
- Member of the University of Nebraska-Lincoln Department of Agronomy Faculty Advisory Committee, 2016-2017.
- Member/Coach of the University of Nebraska-Lincoln Weeds Team, 2010 to 2017.
- Member of the Search Committee for the University of Nebraska-Lincoln Beef Cattle Nutritionist - Range Production Systems Specialist Position in the Department of Animal Sciences and West Central Research and Extension Center that resulted in the hiring of Dr. Travis Mulliniks, 2017.
- Graduate Student Representative for the Agronomy and Horticulture Seminar Committee, 2012-2015.
- North Central Weed Science Society Graduate Student Chair, 2014.
- Member of the Search Committee for the University of Nebraska-Lincoln Weed Management Specialist Position in the Department of Agronomy and Horticulture that resulted in the hiring of Dr. Amit Jhala, 2012.

## **PROFESSIONAL DEVELOPMENT AND NETWORK** (*Event Participation; 2018 Onwards*)

- Dicamba OTM Industry-University Brainstorm Meeting. UW-Madison Pyle Center, Madison, WI. October 24-25, 2019.
- 1<sup>st</sup> UW-Madison Agronomy Department Diversity Retreat. UW-Madison Union South. Madison, WI. October 14, 2019.
- Growmark & Winfield University Weed Scientist Meeting. Holiday Inn City Centre. Lafayette, IN. September 23-25, 2019.
- S1084 Meeting: Industrial Hemp Production, Processing, and Marketing in the US. Hilton Lexington Downtown. Lexington, KY. August 22-23, 2019.
- 2019 Fall IPCM Technical Advisory Committee Meeting. West Madison Agricultural Research Station. Madison, WI. September 06, 2019.
- 2019 UW-Madison Agronomy Faculty Retreat. Round Barn Lodging, Spring Green, WI. June 03, 2019.
- Working Better Together: Everything DiSC Workplace UW-Agronomy Sponsored Workshop. Wisconsin Institutes of Discovery. Madison, WI. April 09, 2019.

- BASF University Weed Management Symposium. Hilton Tampa Westshore. Tampa, FL. January 22-24, 2019.
- University of Wisconsin-Madison Tenure Workshop: Biological Sciences. UW-Madison Union South. Madison, WI. January 15, 2019.
- NCWSS 2018 Annual Meeting. Hyatt Regency Milwaukee. Milwaukee, WI. December 03-06, 2018.
- 2<sup>nd</sup> Monsanto Academic Summit. Marriott St. Louis West. St. Louis, MO. November 07-09, 2018.
- Growmark & Winfield University Weed Scientist Meeting. Sheraton St. Paul Woodbury. Woodbury, MN. September 24-26, 2018.
- 2018 Fall IPCM Technical Advisory Committee Meeting. West Madison Agricultural Research Station. Madison, WI. September 07, 2018.
- UW-Madison New Faculty Welcome and Orientation. Pyle Center, AT&T Lounge. Madison, WI. August 27-28, 2018.
- NCWSS 2018 Weed Contest. Monsanto Water Utilization Learning Center. Gothenburg, NE. July 25-26, 2018.
- 2018 Wisconsin Farm Technology Days. Sterneweis & Weber's Farms. Marshfield, WI. July 10-12, 2018. Represented UW-Extension.
- PAT Field and Vegetable Training. Arlington Agricultural Research Station, Madison, WI. March 29, 2018. Became a Certified Pesticide Applicator in Wisconsin (Category: 001.1).
- UW UAV Pilot Training. West Madison Agricultural Research Station. Madison, WI. March 27, 2018.
- 2018 Spring IPCM Technical Advisory Committee Meeting. West Madison Agricultural Research Station. Madison, WI. March 09, 2018.
- Monsanto New SSR Training. Monsanto Creve Coeur Campus. St. Louis, MO. March 07, 2018.
- UW-Madison Employee Career Conference: "Construct your Career at UW". Union South. Madison, WI. March 06, 2018.
- 2018 Wisconsin Cover Crop Conference. Holiday Inn and Conference Center. Stevens Point, WI. February 27, 2018.

## MENTORSHIP

- Graduate Students at the University of Wisconsin-Madison, *advised/co-advised*: Sarah Striegel (MS student, 2018-current), Nikola Arsenijevic (MS student, 2018-current), Victor Ribeiro (visiting MS student, 2018-current), Felipe Faleco (MS student, 2019-current), Kolby Grint (MS student, 2019-current), and Haleigh Ortmeier-Clarke (MS student, 2019-current); *advisory committee member*: Hannah Francis (MS student, 2019-current).
- Undergraduate Research Scholars at the University of Wisconsin-Madison: Lina Liu (2018-2019) and David Wang (2018-2019)
- Undergraduate Research Intern at the University of Wisconsin-Madison: Rachel Renz (2018) and Madison Melms (2019).
- Outreach Specialist at the University of Wisconsin-Madison: Nicholas Arneson (2019-current).
- Research Specialist at the University of Wisconsin-Madison: Ryan DeWerff (2018-current).

- Postdoctoral Research Associate at the University of Wisconsin-Madison: Maxwell Oliveira (2018-current).
- Graduate Students at the University of Nebraska-Lincoln (advised/co-advised or actively mentored): Alexandre Rosa (PhD student, 2017-current), Samuel Koeshall (MS student, 2017-current), Adam Striegel (DPH student, 2017), Don Treptow (MS student, 2016-current), Bruno Vieira (PhD student, 2016-2019), Nicholas Arneson (MS student, 2016-2019), Strahinja Stepanovic (PhD student, 2016-current), Jasreman Singh (MS student, 2016-2017).
- International Undergraduate Research Interns at the University of Nebraska-Lincoln West Central Research and Extension Center: Nikola Arsenijevic from Serbia (2017), Gustavo Vieira from Brazil (2017), Felipe Faleco from Brazil (2016-2017).
- Research Technician at the University of Nebraska-Lincoln West Central Research and Extension Center: Liberty Butts (2016-2017).
- International Undergraduate Research Interns at the University of Nebraska-Lincoln: Roberto Martins from Brazil (2014), Leonardo Perez from Brazil (2012), Bruno Vieira from Brazil (2011), Gustavo Mastria from Brazil (2011).
- Undergraduate Research Interns at the University of Nebraska-Lincoln: Francisco Junior (2015), Bret Rausch (2014-2015).

## STUDENTS' AWARDS

### *Badger Weeds Team:*

- Second Place Graduate Team, 2018 NCWSS Student Weed Contest, Gothenburg, NE
- First Place Weed ID (Nikola Arsenijevic), 2018 NCWSS Student Weed Contest, Gothenburg, NE

### *Kolby Grint (MS Student, University of Wisconsin-Madison):*

- 2019 North Central Sustainable Agriculture Research and Education Graduate Student Grant. Project: Assessment of soil management strategies for sustainable crop production, weed management and mitigation of herbicide carryover (\$15,000)

### *Sarah Striegel (MS Student, University of Wisconsin-Madison):*

- 2018 Graduate Student Travel Award, NCWSS Meetings, Milwaukee, WI
- 2018 Gordon Harvey Distinguished Fellowship in Weed Science (\$25,000)
- 2018 O.N. Allen Graduate Student Scholarship

### *Alexandre Tonon Rosa (PhD Student, University of Nebraska-Lincoln):*

- 2018-2019 Shear Miles Fellowship, UNL-Agricultural Research Division
- First place Graduate Poster Competition, 2018 NCWSS Meetings, Milwaukee, WI.
- Second place on 5-minute rapid talk and third place on poster competitions at the C-3 Division (Crop Ecology, Management and Quality), 2018 ASA, CSSA & CSA, Baltimore, MD
- 2018 Graduate Student Travel Award, UNL-Agricultural Research Division, David H. & Annie E. Larrick Student Travel Funds
- 2018 North Central Sustainable Agriculture Research and Education Graduate Student Grant. Project: Double Cropping Field Peas with Cover Crops, Forages and Short Season Crops in Sub-Humid Climates (\$11,525)
- 2017 Graduate Student Travel Award, NCWSS Meetings, St. Louis, MO

### *Italo Kayke Pinho de Faria (Visiting Undergraduate Student, University of Nebraska-Lincoln):*

- Fourth Place Undergraduate Poster Competition, 2018 Corteva Agriscience Plant Sciences Symposia Series, Kansas State University, Manhattan, KS

*Don Treptow (MS Student, University of Nebraska-Lincoln):*

- Second Place Graduate Student Paper Competition, 2017 NCWSS Meetings, St. Louis, MO.

*Adam Striegel (DPH Student, University of Nebraska-Lincoln):*

- Second Place Graduate Student Poster Competition, 2017 NCWSS Meetings, St. Louis, MO.

*Felipe Faleco (Visiting Undergraduate Student, University of Nebraska-Lincoln):*

- First Place Undergraduate Student Poster Competition, 2016 NCWSS Meetings, Des Moines, IA.

## SELECTED GRANT PROPOSALS & INDUSTRY SPONSORSHIP

Arriaga, F., **R. Werle**, H. Johnson, Rachel Rushmann, and G. Siemering. Cropping system impacts on soil health and weed density/diversity: demonstrating the benefits of high residue cover crops. USDA NRCS Conservation Innovation Grants On-Farm Conservation Innovation Trials. *Submitted*. \$1,555,108 (2020-2022)

**Werle, R.**, S. Ellison, S. Conley, C. Laboski, D. Smith, J. Gaska, E. Silva, B. Luck, P. Mitchell, I. Goldman, L. Binversie, C. Duley, and J. Clark. Industrial hemp (*Cannabis sativa* L.) adaptation and response to agronomic practices in Wisconsin. UW-Madison Division of Extension and College of Agricultural and Life Sciences industrial hemp capacity funds. \$35,000 + \$100,000 private donation (2019).

Johnson, B., K. Bradley, M. Loux, C. Sprague, A. Hager, B. Hartzler, **R. Werle**, D. Peterson, L. Steckel., J.D. Green, T. Legleiter, and J. Ikley. Take Action – Multi State herbicide resistant crops and weeds educational program. United Soybean Board. \$328,789 (2019-2020).

Smith, D., G. Schreifer, J. Kamps, and **R. Werle**. Education on no-till and cover crop management to improve weed control. Wisconsin SARE Mini-Grant. \$1,000 (2019).

**Werle, R.**, M. Oliveira, and D. Smith. Challenging the weed management challenges in Wisconsin corn production. Wisconsin Corn Promotion Board. \$30,000 (2019-2021).

**Werle, R.** Understanding and overcoming the weed management challenges in Wisconsin soybean production. Wisconsin Soybean Marketing Board. \$60,000 (2019).

**Werle, R.** Dicamba off-target movement research projects. Bayer Crop Sciences. \$66,825 (2019).

**Werle, R.** 2,4-D large-scale off-target movement research project. Corteva Agriscience. \$5,000 (2019).

**Werle, R.** Wisconsin Waterhemp Management Educational Efforts. Sponsors: BASF, Bayer, FMC, Syngenta, and Valent. \$25,000 (2019).

**Werle, R.** Wisconsin Herbicide Evaluation Program - Sponsors: Bayer Crop Science, Syngenta, FMC, BASF, SIMPCAM AGRO, Corteva Agriscience, Valent, West Central, Helm Agro, UPL, AMVAC. \$112,186 + pending amounts (2019).

Johnson, B., K. Bradley, M. Loux, C. Sprague, A. Hager, B. Hartzler, **R. Werle**, D. Peterson, and L. Steckel. Take Action – Multi State herbicide resistant crops and weeds educational program. United Soybean Board. \$270,000 (2018-2019).

**Werle, R.** Optimizing the use of dicamba for management of troublesome weeds in soybean production in Wisconsin. Monsanto Company. \$136,380 (2018-2020).

**Werle, R.** Understanding and overcoming the weed management challenges in Wisconsin soybean production. Wisconsin Soybean Marketing Board. \$25,000 (2018).

**Werle, R.** Dicamba off-target movement research projects. Monsanto Company. \$80,850 (2018).

- Werle, R.** Wisconsin Herbicide Evaluation Program - Sponsors: Bayer Crop Science, Monsanto, Syngenta, FMC, BASF, SIMPCAM AGRO, Dow Agrosiences, Valent, AMVAC, and DuPont. \$118,170 (2018).
- Lindquist, J., A. Jhala, B. Sigmon, B. Tenhumberg, **R. Werle**, and M. Yerka. A risk-assessment model and population genomics tools for monitoring herbicide-resistance evolution in weedy sorghum. USDA-BRAG. \$499,998 (2017-2020).
- Jackson-Ziems, T., and **R. Werle**. Development and implementation of mitigation strategies for the emerging maize pathogen *Xanthomonas vasicola* pv. *vasculorum*. USDA-APHIS. \$70,000 (2017-2018).
- Proctor, C., M. Drewnoski, R. Elmore, S. Everhart, A. McMechan, J. Parsons, D. Redfearn, and **R. Werle**. Optimizing Cropping Systems for Resilience to Stress: The Role of Maturity Group Selection and Cover Crops on Yield, Weeds, Insects, and Microbes. USDA-NIFA. \$500,000 (2017-2019).
- Werle, R.**, S. Stepanovic, A. Adesemoye, H. Blanco, C. Burr, C. Creech, J. Peterson, D. Rudnick, D. Santra, and M. Stockton. Rotational Benefits and Agronomic Evaluation of Field Peas in Cereal Based Cropping Systems. NCR-SARE Research and Education Grant Program. \$200,000 (2017-2019).
- Werle, R.**, C. Burr, C. Creech, R. Klein, J. Lindquist, D. Rudnick, and S. Stepanovic. Impact of Wheat Stubble Management and Cover Crops on Sustainability of Wheat-Corn-Fallow Rotation in Semi-Arid Nebraska. ARD Innovation Fund for Wheat/Cereal Crops. \$150,000 (2016-2019)
- Lindquist, J.L., A. Jhala, and **R. Werle**. ALS resistance in shattercane and johnsongrass: current status and future predictions. United Sorghum Checkoff Program. \$220,525 (2013-2016).

## REFEREED PUBLICATIONS

*In Preparation (Expected Submission: Spring 2020)*

- Holmes, K.H., J.L. Lindquist, R. Rebarber, **R. Werle**, M. Yerka, and B. Tenhumberg. Modeling the evolution of herbicide resistance in weed species with a complex life history. *Target Journal: Ecological Applications*.
- Smith, D., M.C. Oliveira, M. Renz, M. Ruark, V. Davis, L. Bosak, F. Arriaga, and **R. Werle**. Herbicide carryover evaluation following commonly applied silage corn and soybean herbicides. *Target Journal: Agriculture*.
- Oliveira, D. Giacomini, P. Tranel, G.S. Vieira, N. Arsenijevic, and **R. Werle**. Molecular and greenhouse validation of field-evolved resistance to glyphosate and PPO-inhibitors in Palmer amaranth. *Target Journal: Pest Management Science or Weed Technology*.
- Werle, R.**, M.C. Oliveira, and L. Butts. Combining herbicide programs and cereal rye cover crop for integrated weed management in soybeans. *Target Journal: Agriculture; invited submission for special issue entitled: "Cover Crops"*.
- Latorre, D.O., S. Samuelson, C.A. Carbonari, **R. Werle**, and G.R. Kruger. Low frequency of glyphosate-resistant horseweed (*Conyza canadensis*) in Nebraska rangeland. *Target Journal: Journal of Agricultural Science*.

*Submitted (In Review)*

B.C. Vieira, J.D. Luck, K.L. Amundsen, **R. Werle**, T.A. Gaines, and G.R. Kruger. Herbicide drift exposure leads to reduced herbicide sensitivity in *Amaranthus spp.* *Submitted to Scientific Reports*.

Oliveira, M.C., A.L. da Silva, A.R. Ulguim, and **R. Werle**. 2019. Assessment of weed management strategies and challenges in Brazilian cropping systems. *Submitted to Weed Technology*.

*Published (29 Journal Articles and 1 Book Chapter)*

Soltani, N., M.C. Oliveira, G.S. Alves, **R. Werle**, J.K. Norsworthy, C.L. Sprague, B.G. Young, D.B. Reynolds, A. Brown, and P. Sikkema. 2019. Large-scale off-target movement assessment of dicamba in North America. *Accepted with Major Revisions in Weed Technology*.

Sciarresi, C., C. Proctor, E.R. Haramoto, L.E. Lindsey, G.I. Carmona, R. Elmore, S. Everhart, W. Looker, M. Marroquin-Guzman, J. McMechan, J. Wehrbein, **R. Werle**, and M. Salmeron. 2019. Evaluating short-season soybean management adaptations for cover crop rotations with a crop simulation model. *Accepted with Major Revisions in Field Crops Research*.

Vieira, B.C., J.D. Luck, K.L. Amundsen, T.A. Gaines, **R. Werle**, and G.R. Kruger. 2019. Response of *Amaranthus spp.* following exposure of sublethal herbicide rates via spray particle drift. PLoS ONE. 14(7) <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0220014>

Oliveira, M., L. Butts, and **R. Werle**. 2019. Assessment of cover crop management strategies in Nebraska, US. 2019. Agriculture. 9(6):124. <https://www.mdpi.com/2077-0472/9/6/124>

Lo, T.H., D.R. Rudnick, C.A. Burr, M.C. Stockton, and **R. Werle**. 2019. Approaches to evaluating grower irrigation and fertilizer nitrogen amount and timing. Agricultural Water Management. 213:693-706. *Accepted Directly by the Editor Due to High Quality and Relevance to Readers*. <https://doi.org/10.1016/j.agwat.2018.11.010>

**Werle, R.**, M.C. Oliveira, A.J. Jhala, C.A. Proctor, J. Rees, and R. Klein. 2018. Survey of Nebraska farmers' adoption of dicamba-resistant soybean technology and dicamba off-target movement. Weed Technology. 32:754-761. <https://doi.org/10.1017/wet.2018.62>

Butts, T.R., B.C. Vieira, D.O. Latorre, **R. Werle**, and G. Kruger. 2018. Competitiveness of herbicide-resistant waterhemp (*Amaranthus tuberculatus*) with soybeans. Weed Science. 66:729-737. <http://dx.doi.org/10.1017/wsc.2018.45>

Oliveira, M.C., G.A.M. Pereira, E.A. Ferreira, J.B. Santos, S.Z. Knezevic, and **R. Werle**. 2018. Additive design: the concept and data analysis. Weed Research. 58:335-347. <https://onlinelibrary.wiley.com/doi/abs/10.1111/wre.12317>

Vennapusa, A.R., F. Faleco, B. Vieira, S. Samuelson, G.R. Kruger, **R. Werle**, and M. Jugulam. 2018. Prevalence and mechanism of atrazine resistance in common waterhemp (*Amaranthus tuberculatus*) from Nebraska. Weed Science. 66:595-601. <https://doi.org/10.1017/wsc.2018.38>

Stepanovic, S.V., C. Burr, J.A. Peterson, D. Santra, D. Rudnick, T. Adesemoye, C.F. Creech, and **R. Werle**. 2018. Field peas response to seeding rate, depth and inoculant in west-central Nebraska. Agronomy Journal. 110:1412-1419. <https://dl.sciencesocieties.org/publications/aj/articles/110/4/1412>

Elmore, R.W., **R. Werle**, C. Wortmann, P. Tukamuhabwa, and N. Mueller. 2018. Sustainable soybean production research and practice: contrasting case studies from three soybean production areas. Nguyen, H. (ed.), Achieving sustainable cultivation of soybeans Volume 1: Breeding and cultivation techniques, Burleigh Dodds Science Publishing, Cambridge, UK (ISBN: 978 1 78676 112 5; [www.bdspublishing.com](http://www.bdspublishing.com))



- Werle, R., and J. Miller. 2018. Survey of Nebraska soybean producers: current and future status of weed management. *Journal of Extension*. 56(2) <https://www.joe.org/joe/2018april/rb5.php>
- Werle, R., C. Burr, and H. Blanco-Canqui. 2018. Cereal rye cover crop suppresses winter annual weeds. *Canadian Journal of Plant Science*. 98:498-500.  
<http://www.nrcresearchpress.com/doi/abs/10.1139/CJPS-2017-0267#.WuC6AZdOlaR>
- Vieira, B.C., S.L. Samuelson, G.S. Alves, T.A. Gaines, R. Werle, and G.R. Kruger. 2018. Distribution of glyphosate-resistant *Amaranthus* spp. in Nebraska. *Pest Management Science*. Wiley Online Library. DOI 10.1002/ps.4781 <https://onlinelibrary.wiley.com/doi/full/10.1002/ps.4781>
- Rudnick, D.R., T. Lo, J. Singh, R. Werle, F. Munoz-Arriola, T. Shaver, C.A. Burr, T.J. Dorr. 2018. Reply to comments on “Performance assessment of factory and field calibrations for electromagnetic sensors in a loam soil”. *Agricultural Water Management*. 203: 272-276.  
<https://www.sciencedirect.com/science/article/pii/S0378377418301318>
- Singh, J., T. Lo, D.R. Rudnick, T.J. Dorr, C.A. Burr, R. Werle, T.M. Shaver, F. Munoz-Arriola. 2018. Performance assessment of factory and field calibrations for electromagnetic sensors in a loam soil. *Agricultural Water Management*. 196:87-98.  
<https://www.sciencedirect.com/science/article/pii/S0378377417303463>
- Barnes, E., R. Werle, L.D. Sandell, J.L. Lindquist, S.Z. Knezevic, P.H. Sikkema, and A. Jhala. 2017. Influence of tillage on common ragweed (*Ambrosia artemisiifolia*) emergence pattern in Nebraska. *Weed Technology*. 31:623-631. <http://www.bioone.org/doi/abs/10.1017/wet.2017.38>
- Werle, R., K. Begcy, M. K. Yerka, I. Dweikat, A. J. Jhala, J. P. Mower, 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.  
<http://www.bioone.org/doi/abs/10.1614/WS-D-16-00095.1>
- Werle, R., B. Tenhumberg, and J. L. Lindquist. 2017. Modeling the evolution of shattercane resistance to ALS-inhibiting herbicides in an ALS-tolerant sorghum cropping system. *Ecological Modeling*. 343:131-141. <https://www.sciencedirect.com/science/article/pii/S0304380016306342>
- Saini, S., R. Werle, L.D. Sandell, and A. Jhala. 2016. Spring-tillage has no effect on the emergence pattern of glyphosate-resistant giant ragweed (*Ambrosia trifida* L.) in Nebraska. *Canadian Journal of Plant Science*. 96: 726-729. <http://www.nrcresearchpress.com/doi/abs/10.1139/cjps-2015-0287#.WuCdGZdOlaR>
- Werle, R., A. 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. *Invited Submission*.  
<https://dl.sciencesocieties.org/publications/aj/abstracts/108/1/321>
- 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. <http://www.bioone.org/doi/abs/10.1614/WT-D-14-00063.1>
- 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.  
<http://www.bioone.org/doi/abs/10.1614/WS-D-13-00116.1>
- 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.  
<http://www.bioone.org/doi/abs/10.1614/WS-D-13-00091.1>

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- Stepanovic, S., J. Milander, J. Peterson, C. Burr, D. Rudnick, T. Adesemoye, C. Creech, **R. Werle,** and D. Santra. 2016. Replacing summer fallow with grain-type field peas: rotational costs and benefits. University of Nebraska-Lincoln CropWatch. Nebraska crop production and pest management information. March 08, 2016. <https://cropwatch.unl.edu/replacing-summer-fallow-grain-type-field-peas-rotational-costs-and-benefits>
- Werle, R.** 2015. It's time to scout for maretail and other early emerging weeds. University of Nebraska-Lincoln CropWatch. Nebraska crop production and pest management information. March 13, 2015. <https://cropwatch.unl.edu/scout-maretail-and-other-early-emerging-weeds>
- Sandell, L., Silva, A., Kruger, G., **Werle, R.** 2014. Glyphosate-resistant common ragweed confirmed in Nebraska. University of Nebraska-Lincoln CropWatch. Nebraska crop production and pest



- management information. June 12, 2014. <https://cropwatch.unl.edu/glyphosate-resistant-common-ragweed-confirmed-nebraska>
- Werle, R.**, and L. Sandell. 2013. Management of winter annual weeds starts this fall. University of Nebraska-Lincoln CropWatch. Nebraska crop production and pest management information. October 11, 2013. <https://cropwatch.unl.edu/managing-winter-annual-weeds-starts-fall>
- Werle, R.**, L. Sandell, and G. Kruger. 2013. Postemergence control of emerged waterhemp in soybeans. University of Nebraska-Lincoln CropWatch. Nebraska crop production and pest management information. June 22, 2013. <https://cropwatch.unl.edu/postemergence-control-emerged-waterhemp-soybeans>
- Jhala, A., L. Sandell, D. Sarangi, and **R. Werle**. 2013. Glyphosate-resistant common waterhemp confirmed in Nebraska. University of Nebraska-Lincoln CropWatch. Nebraska crop production and pest management information. April 25, 2013. <https://cropwatch.unl.edu/glyphosate-resistant-common-waterhemp-confirmed-nebraska-unl-cropwatch-april-26-2013>

## EXTENSION PRESENTATIONS

- Werle, R.** 2020. Update on 2 years of waterhemp and dicamba research in Wisconsin. 2<sup>nd</sup> Northwest Illinois Agronomy Summit. Highland Community College, Freeport, IL. January 14, 2019. (60 minutes).
- Werle, R.** 2019. Considerations for 2020 Weed Management Programs. 2019 Columbia County Corn Growers Meeting. Columbus, WI. December 19, 2019. (60 minutes)
- Werle, R.**, and N. Arneson. 2019. Corn and soybeans weed management research update. 2019 Wisconsin Pest Management Update Meetings. November 4, 2019 at Marshfield, WI, November 5, 2019 at Chippewa Falls, November 6, 2019 at Darlington and Janesville, WI, November 7, 2019 at Fond du Lac and Appleton, WI, and November 8, 2019 at Bangor, WI. (7 presentations, 40 minutes each).
- Smith, D., N. Arneson and **R. Werle**. 2019. Diagnostic training: preventing the spread of troublesome weed seeds. 2019 Wisconsin Pest Management Update Meetings. November 4, 2019 at Marshfield, WI, November 5, 2019 at Chippewa Falls, November 6, 2019 at Darlington and Janesville, WI, November 7, 2019 at Fond du Lac and Appleton, WI, and November 8, 2019 at Bangor, WI. (7 presentations, 30 minutes each).
- Werle, R.**, F. Faleco, N. Arsenijevic, and K. Grint. 2019. Research update on weed management for annual cropping systems. 2019 Agronomy and Soils Field Day. UW-Arlington Agricultural Research Station. Arlington, WI. August 28, 2019. (2 presentations, 30 minutes each, 150 participants total).
- Werle, R.**, S. Ellison, and L. Sandler. 2019. Updates from research throughout the state. 2019 Industrial Hemp Educational Webinar: Trouble-shooting and Harvest Considerations. Madison, WI. August 07, 2019. (30 minutes; 300 participants online; recording available via YouTube).
- Werle, R.**, N. Arneson, and D. Smith. 2019. Limit the spread of weed seeds. 2019 Combine Cleaning Clinic. July 16, 2019 at Marshfield Ag Research Station, Marshfield, WI, and August 12, 2019 at Seed Concepts, Pulaski, WI. (2 presentations, 150 minutes each, 50 participants total).
- Werle, R.** 2019. Systems approach for giant ragweed and waterhemp control. 2019 BASF Agronomy Field Day. Janesville, WI. July 11, 2019. (2 presentations, 30 minutes each; 100 participants total).

- Werle, R.** 2019. UW-Madison industrial hemp research program plans for 2019. 2019 Agronomics of hemp webinar. Madison, WI. April 18, 2019. (30 minutes; 300 participants online; recording available via YouTube).
- Werle, R.** 2019. Integrated waterhemp management. 2019 Wisconsin Regional Waterhemp Workshops. March 19, 2019 at Chippewa Falls, WI, March 20, 2019 at Bangor, WI, March 25, 2019 at Janesville, and March 26, 2019 at Appleton, WI. (4 presentations; 15 minutes each; 220 participants total).
- Werle, R.** 2019. Waterhemp management in soybeans and corn. 2019 Wisconsin Regional Waterhemp Workshops. March 19, 2019 at Chippewa Falls, WI, March 20, 2019 at Bangor, WI, March 25, 2019 at Janesville, and March 26, 2019 at Appleton, WI. (4 presentations; 15 minutes each; 220 participants total).
- Werle, R.** 2019. Herbicide SOA vs effective SOA. 2019 Wisconsin Regional Waterhemp Workshops. March 19, 2019 at Chippewa Falls, WI, March 20, 2019 at Bangor, WI, March 25, 2019 at Janesville, and March 26, 2019 at Appleton, WI. (4 presentations; 15 minutes each; 220 participants total).
- Werle, R.** 2019. Application parameters for liberty efficacy. 2019 BASF Wisconsin Innovation Conference. Wisconsin Dells, WI. February 21, 2019. (60 minutes, 350 participants).
- Werle, R.** 2019. Waterhemp, Waterhemp, Waterhemp. 2019 Sheboygan County Agronomy Day. Random Lake, WI. February 21, 2019. (60 minutes, 110 participants).
- Werle, R.** 2019. Herbicide resistance and spray considerations. UW PAT Field and Vegetable Training. February 18, 2019 at Wisconsin Dells and March 21, 2019 at Arlington. (2 presentations, 45 minutes each; 160 participants total).
- Werle, R., and S. Striegel.** 2019. Waterhemp and giant ragweed management from the group up. 2019 Wisconsin Corn-Soy Expo. Wisconsin Dells, WI. February 01, 2019. (60 minutes, 250 participants).
- Werle, R.** 2019. Wisconsin waterhemp and dicamba research and stakeholder survey. 2019 Wisconsin Agribusiness Classic. Madison, WI. January 17, 2019. (30 minutes, 300 participants total).
- Werle, R.** 2018. Waterhemp and Palmer amaranth Update & Value of PRE-emergence herbicides. BASF Take Control NOW by Planning for 2019 Winter Meeting. UW-Arlington Agricultural Research Station Arlington, WI. December 18, 2018. (45 minutes; 85 participants).
- Werle, R.** 2018. Waterhemp and Other Resistant Weed Management Programs for 2019. 2018 Columbia County Corn Growers Meeting. Columbus, WI. December 13, 2018. (45 minutes; 65 participants).
- Werle, R.** 2018. Corn and soybeans weed management research update. 2018 Wisconsin Pest Management Update Meetings. November 12, 2018 at Marshfield, WI, November 13, 2018 at Chippewa Falls, November 14, 2018 at Platteville and Janesville, WI, November 15, 2018 at Fond du Lac and Kimberly, WI, and November 16, 2018 at Bangor, WI. (7 presentations, 40 minutes each, 350 participants total).
- Werle, R., R. DeWerff, and M.C. Oliveira.** 2018. WiscWeeds Soybean Research Update. WSA and WSMB in-field plot tour. UW-Arlington Agricultural Research Station. Arlington, WI. September 11, 2018. (30 minutes, 30 participants).
- Werle, R., and D. Smith.** 2018. Limit the spread of weed seeds. 2018 Combine Cleaning Clinic. August 30, 2018 at Monticello, WI and September 05, 2018 at Columbus, WI. (2 presentations, 90 minutes each, 50 participants total).

- Werle, R.,** V.H. Ribeiro, S. Striegel, and N. Arsenijevic. 2018. Research update on weed management for annual cropping systems. 2018 Agronomy and Soils Field Day. UW-Arlington Agricultural Research Station. Arlington, WI. August 22, 2018. *(2 presentations, 20 minutes each, 150 participants total)*.
- Werle, R.** 2018. Recap of 2018 weed management season, systems approach to weed management, waterhemp and dicamba updates. 2018 Western Wisconsin Crop Management Field Days. August 15 at Chippewa Falls, Waumandee and La Crosse, WI, and August 16 at Tomah and Viola, WI. *(5 presentations, 40 minutes each, 150 participants total)*.
- Werle, R.,** and C.A. Proctor. 2018. Integrating weed management strategies in soybeans. 2018 Nebraska Soybean Management Field Days. August 07, 2018 at Kenesaw, NE, August 08, 2018 at Albion, NE, August 09, 2018 at Hartington, NE, and August 10 at Cedar Bluffs, NE. *(14 presentations, 60 minutes each, 420 participants total)*.
- Werle, R.** 2018. 2018 Update on herbicide resistant in Wisconsin corn and soybeans. 2018 BASF Agronomy Field Day. Janesville, WI. July 12, 2018. *(3 presentations, 30 minutes each; 150 participants total)*
- Werle, R.** 2018. Developing a spray program to combat herbicide-resistant weeds. 2018 Summer Field Day: Grain Crop Management. Sturgeon Bay, WI. June 12, 2018. *(30 minutes, 15 participants total)*.
- Werle, R.** 2018. Distribution and management of herbicide-resistant weeds in Wisconsin. John Deere Tractor Central – 2018 Westby Spring Expo. Westby, WI. March 14, 2018. *(40 minutes, 100 participants total)*.
- Werle, R.** 2018. Herbicide resistance update and management of herbicide-resistant weeds. Crop Management Meeting, Trempealeau County. Centerville, WI. March 08, 2018. *(40 minutes, 15 participants total)*.
- Werle, R.** 2018. Weed science program update. Grains Team Wisline (conference call). March 02, 2018. *(20 minutes, 10 participants total)*.
- Werle, R.** 2018. Weed management and herbicide resistance update. 2018 Winter Crops Update. Sparta, WI. February 15, 2018. *(40 minutes, 15 participants total)*.
- Werle, R.** 2018. Dissecting dicamba and other spray issues. 2018 Wisconsin Corn-Soy Expo. Wisconsin Dells, WI. February 01, 2018. *(2 presentations, 60 minutes each, 250 participants total)*.
- Werle, R.** 2018. Tips on waterhemp management in soybeans. 2018 Wisconsin Agribusiness Classic. Madison, WI. January 09, 2018. *(30 minutes, 300 participants total)*.
- Werle, R.** 2018. Weed management in corn and soybeans. 2018 Wisconsin agronomy update meetings. January 02, 2018 at Janesville, WI; January 03, 2018 at DeForest and Fond du Lac, WI; January 04, 2018 at Kimberly and Wausau, WI; January 05, 2018 at Eau Claire and Sparta, WI; January 08, 2018 at Belmont, WI. *(8 presentations, 40 minutes each, 380 participants total)*.
- Werle, R.** 2017 Survey of Nebraska soybean farmer's adoption of Xtend technology and off-site dicamba movement. Nebraska Farm Bureau Dicamba Industry Roundtable. Lincoln, NE. October 10, 2017.
- Werle, R.** 2017. Overview of cover crops and weed management in Nebraska. University of Nebraska WCREC Educational Travel to NDSU Extension Personnel and ND stakeholders. North Platte, NE. August 15, 2017.

- Elmore, R., and **R. Werle**. 2017. Maturity group and traits, cover crops and weed management. August 08, 2017 at North Platte, NE; August 09, 2017 at Ord, NE; August 10, 2017 at Auburn, NE; August 11, 2017 at Tekamah, NE.
- Werle, R.** 2017. Research update – cover crops after wheat harvest. 2017 Nebraska Extension rainfed cropping systems field day. West Central Research and Extension Center, North Platte, NE. June 19, 2017.
- Werle, R.** 2017. Research update – cover crops after wheat harvest. 2017 Nebraska Extension field pea, forages, and cover crops field day. Bladen, NE. June 16, 2017.
- Werle, R.**, and C. Proctor. 2017. Using knowledge on plant morphology and a seedling identification key to ID weeds. University of Nebraska-Lincoln Extension, Introductory Level Field Scout Training. Agricultural Research and Development Center, Ithaca, NE. May 10, 2017.
- Werle, R.** 2017. Termination of cover crops – what if the plan does not work? Developing a plan for grain crop herbicide management. 2017 Cover Crop Conference. UNL Agricultural Research and Development Center, Ithaca, NE. February 14, 2017.
- Werle, R.**, and C. Creech. 2017. Weed control in grain sorghum and update on herbicide-resistant weeds. 2017 Sorghum Symposium. UNL West Central Research and Extension Center, North Platte, NE. January 25, 2015.
- Werle, R.** 2016. Palmer amaranth and other weed issues headed our way. 2016 Wilber Crop Clinic. Wilber, NE. February 12, 2016.
- Werle, R.** 2016. Herbicide-resistance management: grain sorghum as a case study. 2016 Pest Resistance Workshop. Grant, NE. March 10, 2016.
- Werle, R.**, C. Proctor, and J. Miller. 2016. Using knowledge on plant morphology and a seedling identification key to ID weeds. University of Nebraska-Lincoln Extension, Introductory Level Field Scout Training. Agricultural Research and Development Center, Ithaca, NE. May 11, 2016.
- Werle, R.**, and M.K. Yerka. 2016. Update on Weed Management in Inzen Sorghum. 2016 Weed Management Field Day. June 29, 2016, Clay Center, NE
- Werle, R.**, and J. Miller. 2016. Cover crop termination and weed management. University of Nebraska-Lincoln Extension, Mid-Summer Crop Management Diagnostic Clinics. Agricultural Research and Development Center, Ithaca, NE. July 13, 2016.
- Arneson, N., B. Krienke, C. Shapiro, and **R. Werle**. 2016. Soil fertility, PPO herbicide, and conventional soybean studies. Soybean Management Field Days. August 09, 2016 at Orchard, NE; August 10, 2016 at Chapman, NE; August 11, 2016 at Cordova, NE; August 12, 2016 at Schuyler, NE.
- Werle, R.** and L. Butts. 2016. Sorghum weed control and field peas research. Water and Crops Field Day: Systems Approach to Cropping Systems and Irrigation Management. August 23, 2016 at the West Central Research and Extension Center, North Platte, NE.
- Werle, R.** and S. Stepanovic. 2016. Soil nutrients, microbial activity, and soil infiltration. Field Pea Production Workshop. November 04, Culbertson, NE.
- Werle, R.** and S. Stepanovic. 2016. Seeding rates, seeding depth, and inoculants. Field Pea Production Workshop. November 04, Culbertson, NE.
- Werle, R.** 2016. Alternative strategies for herbicide resistance management. Nebraska Agri-Business Association: 2016 Research Symposium. November 16, 2016, Grand Island.
- Werle, R.** 2016. Update on distribution of herbicide resistant weeds in Nebraska and Palmer amaranth research in southwest Nebraska. Red Willow Chemical and Fertilizer and BASF Grower Meeting. December 05, 2016, McCook, NE.

- Werle, R. 2016.** Update on distribution of herbicide resistant weeds in Nebraska and Palmer amaranth research in southwest Nebraska. Extreme Ag and BASF Grower Meeting. December 06, 2016, North Platte and Cambridge, NE.
- Werle, R.** and J. Miller. 2015. Using knowledge on plant morphology and a seedling identification key to ID weeds. University of Nebraska-Lincoln Extension, Field Scout Training. Agricultural Research and Development Center, Ithaca, NE. May 12, 2015.
- Sandell, L. and **R. Werle.** 2013. Update on herbicide resistance and results from the weed resistance management field days. Nebraska AgriBusiness Association Update Meeting. Lincoln, NE. December 06, 2013.
- Sandell, L. and **R. Werle.** 2012. Herbicide resistance and timing and control recommendations for winter annual weeds. University of Nebraska-Lincoln Extension, Late Season Crop Management Diagnostic Clinics. Agricultural Research and Development Center, Ithaca, NE. August 9, 2012.
- Sandell, L., **R. Werle,** A. J. Jhala. 2012. Addressing winter annual and glyphosate-resistant weeds. University of Nebraska-Lincoln Extension, South Central Agricultural Laboratory Field Day. Clay Center, NE. August 10, 2012.

## EXTENSION VIDEOS

- Werle, R.** 2019. Weed Talk: a quick waterhemp update (2019). Wisconsin Weed Science Vimeo Channel. September 05, 2019. <https://vimeo.com/358180937>
- Werle, R.** 2019. Weed Talk: 2019 Wisconsin large-scale 2,4-D drift trial. Wisconsin Weed Science Vimeo Channel. August 31, 2019. <https://vimeo.com/357101555>
- Werle, R.** 2019. Cover crops after corn silage: spring termination options. University of Wisconsin Integrated Pest and Crop Management. Cover crops after corn silage, 9 key aspects video series. August 06, 2019. <https://www.youtube.com/watch?v=FDIFFuHaSCg&list=PLMF9p1QYShgx1SdUzfnPJFd1l8J90tCpr&index=9&t=0s>
- Werle, R.** 2019. POST control of giant ragweed. Wisconsin Weed Science Vimeo Channel. June 21, 2019. <https://vimeo.com/343669050>
- Werle, R.** 2019. Weed Talk: Demonstrating why full rates of effective PRE-emergence herbicides are recommended. Wisconsin Weed Science Vimeo Channel. June 18, 2019. <https://vimeo.com/343125624>
- Werle, R.** 2019. Early-season soybean herbicide injury. University of Wisconsin Integrated Pest and Crop Management. May 24, 2019. <https://www.youtube.com/watch?v=7aAp5nmuWcs&t=102s>
- Werle, R.** 2019. Weed Talk: Cover crop and weed management considerations. Wisconsin Weed Science Vimeo Channel. May 16, 2019. <https://vimeo.com/336597302>
- Werle, R.,** and F. Faleco. Another herbicide-resistant Palmer amaranth population detected in Wisconsin. University of Wisconsin Integrated Pest and Crop Management. May 16, 2019. <https://www.youtube.com/watch?v=WiPvT08nwM4&t=12s>
- Werle, R.** 2019. Weed Talk: Getting the most out of glufosinate. Wisconsin Weed Science Vimeo Channel. May 08, 2019. <https://vimeo.com/335011671>
- Werle, R.** 2019. 2019 industrial hemp carryover considerations. Wisconsin Hemp YouTube Channel. May 01, 2019. [https://www.youtube.com/watch?v=qDVU\\_jfpYKE&t=16s](https://www.youtube.com/watch?v=qDVU_jfpYKE&t=16s)
- Werle, R.** 2019. Weed Talk: 2019 industrial hemp carryover considerations. University of Wisconsin Integrated Pest and Crop Management. April 30, 2019.

- <https://www.youtube.com/watch?v=ouQzEDBImE4>
- Werle, R., and D. Smith. 2019. Considerations prior to cereal rye cover crop termination. Wisconsin Weed Science Vimeo Channel. April 30, 2019. <https://vimeo.com/332363304>
- Werle, R., and D. Smith. 2019. Considerations prior to cereal rye cover crop termination. Wisconsin Weed Science Vimeo Channel. April 24, 2019. <https://vimeo.com/332363304>
- Werle, R. 2019. Agronomy of Hemp: UW Madison research plans. Wisconsin Hemp YouTube Channel. April 24, 2019. <https://www.youtube.com/watch?v=aa-pVhJM3Bg&t=571s>
- Werle, R., and S. Conley. 2019. Strategies to promote early-season canopy closure. Wisconsin Weed Science Vimeo Channel. April 19, 2019. <https://vimeo.com/331472992>
- Werle, R. 2018. 2018 Large-scale dicamba drift study. University of Wisconsin Integrated Pest and Crop Management. August 02, 2018. [https://www.youtube.com/watch?v=\\_k6jMoGwRp0](https://www.youtube.com/watch?v=_k6jMoGwRp0)
- Werle, R. 2018. Tips on waterhemp management in soybeans for the 2018 growing season. University of Wisconsin Integrated Pest and Crop Management. March 12, 2018. <https://www.youtube.com/watch?v=agxSPiCEKrg>
- Werle, R. 2018. 2018 herbicide resistance update in Wisconsin. University of Wisconsin Integrated Pest and Crop Management. March 12, 2018. <https://www.youtube.com/watch?v=HR1KFvHgYr0>
- Werle, R. 2017. 2017 Dicamba survey. University of Nebraska-Lincoln Market Journal. December 15, 2017. <https://www.youtube.com/watch?v=piop0p0u9Gk>
- Werle, R. 2017. Cover crop and weed control. University of Nebraska-Lincoln Market Journal. September 08, 2017. <https://www.youtube.com/watch?v=CIW50H1cTdw>
- Werle, R. 2017. Terminating cover crops. University of Nebraska-Lincoln Market Journal. March 10, 2017. <https://www.youtube.com/watch?v=mf5Jq8PYJ5g>
- Werle, R. 2017. Brazil's growing season. University of Nebraska-Lincoln Market Journal. January 27, 2017. [https://www.youtube.com/watch?v=\\_bmO25sUKTk](https://www.youtube.com/watch?v=_bmO25sUKTk)
- Werle, R. 2016. Crop research update. University of Nebraska-Lincoln Market Journal. July 29, 2016. <https://www.youtube.com/watch?v=Fjz8y7v0hd0&feature=youtu.be>

#### HOSTED EXTENSION EVENTS (e.g., Workshops, Clinics, Field Days, Plot Tours; 2018 Onwards)

- Dicamba OTM Industry-University Brainstorm Meeting. UW-Madison Pyle Center, Madison, WI. October 24-25, 2019. (15 participants).
- Cover Crops Workshop. Lancaster Ag Research Station. Lancaster, WI. September 04, 2019. (180 minutes; 30 participants).
- UW-Madison Industrial Hemp Research Plot Tour. Special Afternoon Tour – 2019 Agronomy and Soils UW Arlington Agricultural Research Station Field Day. Arlington, WI. August 28, 2019. (150 minutes; 250 participants).
- Dicamba off-target research trials plot tour. UW-Arlington Agricultural Research Station and O'Brien Hybrids Farms. Arlington and Brooklyn, WI. August 13, 2019. Brazilian Soybean Producers Association-APROSOJA USA Dicamba Tour. (360 minutes; 20 participants total).
- Limit the spread of weed seeds. 2019 Combine Cleaning Clinic. July 16, 2019 at Marshfield Ag Research Station, Marshfield, WI, and August 12, 2019 at Seed Concepts, Pulaski, WI. (2 presentations, 150 minutes each, 50 participants total).
- Waterhemp Management Challenge – Plot Tour. O'Brien Hybrids Farms. Brooklyn, WI. July 18, 2019. (120 minutes; 80 participants; **18.6k acres managed; 1.4M acres influenced; value of gained knowledge ~\$17/acre**).



- Waterhemp Management Challenge – Plot Tour. Lancaster Ag Research Station. Lancaster, WI. July 10, 2019. (180 minutes; 50 participants; **7.4k acres managed; 1.2M acres influenced; value of gained knowledge ~\$18/acre**). August 06, 2019. (Valent Company; 120 minutes; 30 participants).
- Giant Ragweed Management Challenge – Plot Tour. Rock County Research Farm. Janesville, WI. June 26, 2019. (180 minutes; 35 participants; **7.4k acres managed; 1.7M acres influenced; value of gained knowledge ~\$18/acre**). August 21, 2019. (Valent Company and Premier Cooperative; 90 minutes; 10 participants).
- 2019 Wisconsin Regional Waterhemp Workshops. March 19, 2019 at Chippewa Falls, WI, March 20, 2019 at Bangor, WI, March 25, 2019 at Janesville, and March 26, 2019 at Appleton, WI. (4 events; 180 minutes each; 220 participants total; **650K acres influenced; 95% of participants indicated they will incorporate knowledge gained; value of gained knowledge ~\$8/acre**).
- Limit the spread of weed seeds. 2018 Combine Cleaning Clinics. August 30, 2018 at Monticello, WI and September 05, 2018 at Columbus, WI. (2 events, 120 minutes each, 50 participants total).
- Dicamba off-target large-scale and low-tunnel trials. UW-Arlington Agricultural Research Station. Arlington, WI. August 02, 2018 (Monsanto Team and stakeholders) and August 20, 2018 (Dekalb Team and stakeholders). (2 events; 120 minutes each; 50 participants total).
- Waterhemp Management Challenge Plot Tour. UW-Lancaster Agricultural Research Station. Lancaster, WI. July 17, 2018 (open to the public), August 02, 2018 (DeLong Company), and August 06, 2018 (Valent Company). (3 events; 120 minutes each; 180 participants total).
- Weed Science Plot Tour. UW-Arlington Agricultural Research Station. Arlington, WI. July 17, 2018. (180 minutes, 60 participants total).
- UW-Weed Science Tour – Corteva (Dow AgroSciences and DuPont). UW-Arlington Agricultural Research Station. Arlington, WI. July 09, 2018. (180 minutes, 30 participants).
- Herbicide Plot Tour – Sipcam. Rock County Farm. Janesville, WI. June 19, 2018. (90 minutes; 10 participants)
- Columbia County Corn Growers Association Early-Season Weed Management Field Day. UW-Arlington Agricultural Research Station. Arlington, WI. June 06, 2018. (90 minutes, 20 participants total).

#### INVITED PRESENTATIONS (CLASSROOM & SYMPOSIUM)

- Werle, R.** 2019. Weed resistance and off-target herbicide movement: weed management challenges in North America. 3<sup>rd</sup> Plant Protection Symposium: New Challenges and Solutions for Resistance. Federal Institute of Goias, Urutai, GO, Brazil. September 19, 2019. *Keynote Speaker*.
- Werle, R.** 2019. Challenges with the dicamba-tolerant soybean technology in the Midwest United States. Brasilia, Federal District, Brazil. September 17, 2019. Brazil Ministry of Agriculture.
- Werle, R.** 2019. Dicamba technology round table discussion. National Confederation of Agriculture of Brazil. Brasilia, Federal District, Brazil. September 17, 2019.
- Werle, R.** 2019. What have we learned in two years of waterhemp research and extension efforts in Wisconsin? 2019 Fall IPCM Technical Advisory Committee Meeting. West Madison Agricultural Research Station. Madison, WI. September 06, 2019.
- Werle, R.** 2019. Uso da tecnologia dicamba na producao de soja na regioao centro-oeste dos Estados Unidos (Use of dicamba technology on soybean production in the Midwest United States). 12<sup>th</sup> Congresso Brasileiro do Algodao (Brazilian Cotton Congress), Goiania, GO. August 27, 2019.

*Presented via Zoom Videoconference.*

- Oliveira, M., and **R. Werle**. 2018. From herbicide resistance to dicamba off-target management: the weed management challenges in the United States. 2<sup>nd</sup> International Meeting of Agrarian Science and Technology (IMAST). Dracena, SP, Brazil. September 27, 2018.
- Werle, R.** 2018. Dicamba and crop status update for the United States northwestern soybean production region. Bayer Academic Summit. St Louis, MO. November 08, 2018.
- Werle, R.** 2018. My career path: experiences from a Weed Specialist and hints for UW-Madison undergraduate students. Badger Crops Club meeting. University of Wisconsin-Madison, Madison, WI. March 19, 2018.
- Werle, R.** 2018. Agronomic factors influencing cover crop adoption and use. Symposium: Influence of cover crops on insect management. 2018 Entomological Society of America - North Central Branch Meeting. Madison, WI. March 18, 2018.
- Werle, R.** 2015. Modeling weedy sorghum population dynamics in a stochastic herbicide-tolerant sorghum cropping system. Agronomy 824 Advanced Weed Ecology (taught by Dr. Anita Dille). Kansas States University, Manhattan, KS. October 07, 2015.
- Werle, R.** 2015. Modeling the evolution of shattercane resistance to ALS-inhibiting herbicides in ALS-tolerant grain sorghum cropping systems. MathBio Seminar. University of Nebraska-Lincoln, Lincoln, NE. April 02, 2015.
- Werle, R.** 2013. Predicting emergence of annual weed species. Agronomy 824 Advanced Weed Ecology (taught by Dr. Anita Dille). Kansas States University, Manhattan, KS. October 21, 2013.
- Werle, R.** 2013. Path to grad school and hopes for what the advanced degree will do for my career. AGRO 201 Agronomic Internship and Career Preparation (taught by Drs. Dennis McCallister and Thomas Hoegemeyer). University of Nebraska-Lincoln, Lincoln, NE. September 24, 2013.
- Werle, R.** 2013. What to expect and how to prepare for your last year in the DPH Program. Plant Health Club Seminar. University of Nebraska-Lincoln, Lincoln, NE. February 11, 2013.

#### **ON THE MEDIA** (*Selected Media Interviews; 2018 Onwards*)

- Brownfield; Ag news for America: Stopping weeds now will prevent yield losses in 2020: [https://brownfieldagnews.com/managing-for\\_profit/stopping-weeds-now-will-prevent-yield-losses-in-2020/](https://brownfieldagnews.com/managing-for_profit/stopping-weeds-now-will-prevent-yield-losses-in-2020/) (August 26, 2019)
- Brownfield; Ag news for America: The battle against weed resistance (Audio Interview with Weed Scientist Rodrigo Werle): [https://brownfieldagnews.com/managing-for\\_profit/the-battle-against-weed-resistance/](https://brownfieldagnews.com/managing-for_profit/the-battle-against-weed-resistance/) (August 21, 2019)
- Brownfield; Ag news for America: Wet spring is giving weeds the advantage (Audio Interview with Weed Scientist Rodrigo Werle): [https://brownfieldagnews.com/managing-for\\_profit/wet-spring-is-giving-weeds-the-advantage/](https://brownfieldagnews.com/managing-for_profit/wet-spring-is-giving-weeds-the-advantage/) (May 27, 2019)
- WORT FM; Hemp Can Do it! Podcast: The Wisconsin Idea: UW Experts team up on new hemp project (Audio Interview with Weed Scientist Rodrigo Werle and Shelby Ellison): <https://www.wortfm.org/new-hemp-project/> (May 18, 2019)
- Wisconsin Public Radio-NPR: State weed management experts say more farmers interested in non-chemical strategies (Audio Interview with Weed Scientist Rodrigo Werle): <https://www.wpr.org/new-survey-data-finds-many-wisconsin-fields-treated-disputed-herbicide> (May 17, 2019)



- Spectrum News 1: University of Wisconsin announces hemp research project (Video Interview with Weed Scientist Rodrigo Werle and Shelby Ellison):  
<https://spectrumnews1.com/wi/madison/news/2019/04/30/university-of-wisconsin-announces-hemp-research-project> (April 30, 2019)
- WI Farm Report Radio Network; Farm Report with Pam Jahnke: Dicamba use survey open (Audio Interview with Weed Scientist Rodrigo Werle):  
<http://www.fabulousfarmbabe.net/2018/09/04/dicamba-use-survey-open/> (September 04, 2018)
- WI Farm Report Radio Network; Farm Report with Pam Jahnke: Waterhemp war (Audio Interview with Weed Scientist Rodrigo Werle): <http://www.fabulousfarmbabe.net/2018/08/27/waterhemp-war/> (August 27, 2018)
- PAT CHAT Newsletter; UW-Extension Pesticide Applicator Training Program: Waterhemp and Palmer amaranth: an interview with Dr. Rodrigo Werle (Audio Interview):  
[http://ipcm.wisc.edu/tools/Newsletter/013\\_18\\_Aug.html#TOP](http://ipcm.wisc.edu/tools/Newsletter/013_18_Aug.html#TOP) (Issue: August, 2018)
- NTV's Grow: Wisconsin Weed Scientist Rodrigo Werle shares his thought on dicamba use in soybeans (YouTube Video). [https://www.youtube.com/watch?time\\_continue=2&v=cJVr7ggzHAE](https://www.youtube.com/watch?time_continue=2&v=cJVr7ggzHAE) (August 12, 2018)
- NTV's Grow: Wisconsin Weed Scientist Rodrigo Werle talks about value of integrated weed management (YouTube Video): <https://www.youtube.com/watch?v=rvHjfriEGpc> (August 19, 2018)
- Brownfield; Ag news for America: Dicamba test plots demonstrate volatility and drift results. <https://brownfieldagnews.com/news/dicamba-test-plots-demonstrate-volatility-and-drift-results/> (August 02, 2018)

#### **PROFESSIONAL MEETING ABSTRACTS** (*Poster and Paper Presentations; 122 Total*)

- Werle, R.**, M.C. Oliveira, and R. Rector. 2019. Lessons from two years of dicamba off-target movement research in Wisconsin. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Soltani, N., M.C. Oliveira, G.S. Alves, **R. Werle**, G. Kruger, J.K. Norsworthy, C. Sprague, B.G. Young, D. Reynolds, and P. Sikkema. 2019. Large-scale evaluation of off-target movement of dicamba in North America. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Vieira, B.C., K.L. Amundsen, **R. Werle**, J.D. Luck, T. Gaines, and G.R. Kruger. 2019. Herbicide drift exposure leads to reduced herbicide sensitivity in *Amaranthus* spp. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Arneson, N.J., N. Arsenijevic, S. Conley, D. Smith, and **R. Werle**. 2019. Impact of termination timing of cereal rye cover crop on PRE-emergence herbicide residual activity and grain yield in food grade soybeans. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Arsenijevic, N., N.J., Arneson, M.C. Oliveira, and **R. Werle**. 2019. Agronomic practices influence soybean canopy closure and waterhemp suppression. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Arsenijevic, N. R.P. DeWerff, N.J. Arneson, M.C. Oliveira, and **R. Werle**. 2019. If you were a waterhemp plant, where would you rather be? Crop canopy as an effective SOA. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.

- DeWerff, R.P., S. Striegel, M.C. Oliveira, N.J. Arneson, D. Smith, and **R. Werle**. 2019. Systems approach to weed control in Wisconsin corn production systems. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Faleco, F.A., D.E. Stoltenberg, M. Renz, and **R. Werle**. 2019. Distribution of Glyphosate, ALS and PSII resistant waterhemp populations in Wisconsin. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Faleco, F.A., M.C. Oliveira, D.E. Stoltenberg, and **R. Werle**. 2019. The challenge associated to novel palmer amaranth infestations in the Upper Midwest. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Grint, K., C. Proctor, D. Smith, N.J. Arneson, M.C. Oliveira, and **R. Werle**. 2019. Influence of soil management practices on carryover of soil residual herbicides. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Grint, K., D. Smith, R.P., DeWerff, N.J. Arneson, M.C. Oliveira, and **R. Werle**. 2019. Influence of soil management practices on weed control, herbicide fate and crop productivity. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Melms, M., M.C. Oliveira, M. Bernards, A. Jhala, C. Proctor, S. Stepanovic, and **R. Werle**. 2019. Palmer amaranth adaptation to the Upper Midwest. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Ortmeier-Clarke, H., N.J. Arneson, M.C. Oliveira, J. Clark, C. Laboski, S. Conley, and **R. Werle**. 2019. Seeding and nitrogen rate influence canopy closure and weed suppression in industrial hemp. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Ortmeier-Clarke, H., M.C. Oliveira, N.J. Arneson, S. Conley, and **R. Werle**. 2019. Screening of industrial hemp tolerance to corn and soybean herbicides. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Ribeiro, V.H.V., L.G.S. Maia, N.J. Arneson, J.M. Ane, J.B. dos Santos, and **R. Werle**. 2019. Influence of PRE-emergence herbicides on soybean nodulation and nitrogen fixation. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
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- Striegel, S., M.C. Oliveira, R.P. DeWerff, N.J. Arneson, S. Conley, D.E. Stoltenberg, and **R. Werle**. 2019. Impact of tank mix partner on solution pH and secondary movement of dicamba and 2, 4-D. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.
- Striegel, S., M.C. Oliveira, R.P. DeWerff, S. Conley, D.E. Stoltenberg, and **R. Werle**. 2019. Systems approach for weed control in dicamba-resistant soybeans in Wisconsin. Proceedings of the North Central Weed Science Society of America Annual Meetings, Columbus, OH.

- Ortmeier-Clarke, H., C.A.M. Laboski, N.J. Arneson, J. Clark, C. Duley, S.P. Conley, and **R. Werle**. 2019. Agronomics of industrial hemp (*Cannabis sativa* L.) for grain and fiber production in Wisconsin. Proceedings of the ASA-CSSA-CSA Meetings, San Antonio, TX.
- Lindquist, J.L., M.K. Yerka, K. Holmes, B. Tenhumberg, D.G. Treptow, A.J. Jhala, B. Sigmon, and R. Werle. 2019. A risk assessment model and population genomics tools for monitoring herbicide resistance evolution in weedy *Sorghum*. Proceedings of the ASA-CSSA-CSA Meetings, San Antonio, TX.
- Koeshall, S., C. Creech, A. Easterly, **R. Werle**, and S. Stepanovic. 2019. Planting date and seeding rate of field pea (*Pisum sativum* L.) influence seedling emergence and yield components. Proceedings of the ASA-CSSA-CSA Meetings, San Antonio, TX.
- Koeshall, S., C. Creech, A. Easterly, **R. Werle**, and S. Stepanovic. 2019. Rotational benefits of replacing chemical summer fallow with yellow field pea (*Pisum sativum* L.) in cereal-based dryland crop production. Proceedings of the ASA-CSSA-CSA Meetings, San Antonio, TX.
- Koeshall, S., C. Creech, A. Easterly, **R. Werle**, and S. Stepanovic. 2019. Evaluation of planting date and seeding rate on field pea (*Pisum sativum* L.) economically optimal plant population (EOPP) and grain yield. Proceedings of the ASA-CSSA-CSA Meetings, San Antonio, TX.
- Rosa, A.T., S. Koeshall, C. Creech, K.L. Glewen, D.D. Redfearn, M. Drewnoski, **R. Werle**, and S. Stepanovic. 2019. Double cropping field pea with short season crops, forages, and cover crops in eastern Nebraska. Proceedings of the ASA-CSSA-CSA Meetings, San Antonio, TX.
- Rosa, A.T., S. Stepanovic, C. Creech, R.W. Elmore, D.R. Rudnick, C. Burr and **R. Werle**. 2019. Cover crops and wheat stubble management affect rainfed corn productivity in semi-arid western Nebraska. Proceedings of the ASA-CSSA-CSA Meetings, San Antonio, TX.
- Proctor, C.A., A.J. McMechan, E. Haramoto, L.E. Lindsey, M.S. Cortasa, C. Sciarresi, W. Looker, J. Wehrbein, **R. Werle**, R.W. Elmore, and D.D. Redfearn. 2019. Yield of soybean relative maturity group varieties grown in the Midwest and Upper Midsouth. Proceedings of the ASA-CSSA-CSA Meetings, San Antonio, TX.
- Wang, D., L. Liu, and **R. Werle**. 2019. Potential role of soil moisture and group 15 herbicide selection in the *Amaranthaceae* species control. 2019 UW-Madison Undergraduate Research Symposium Program. Madison, WI.
- Oliveira, M.C., M. Bernards, A.J. Jhala, C. Proctor, S. Stepanovic, and **R. Werle**. 2019. Adaptation of Palmer amaranth to the upper Midwest. Proceedings of the Weed Science Society of America Annual Meetings, New Orleans, LA.
- Werle, R., R.P. DeWerff, S.V. Striegel, N. Arsenijevic, V.H. Ribeiro, and M.C. Oliveira. 2019. Systems approach to weed management in corn in Wisconsin. Proceedings of the Weed Science Society of America Annual Meetings, New Orleans, LA.
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- Oliveira, M.C., A.L. da Silva, A.R. Ulguim, and **R. Werle**. 2019. A cropping-system weed science survey of Brazil, a breadbasket country of the tropics. Proceedings of the Weed Science Society of America Annual Meetings, New Orleans, LA.

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- Werle, R.**, M.C. Oliveira, C. Proctor, P. Mitchell, and A. Jhala. 2018. Survey of Nebraska and Wisconsin soybean producers on dicamba use during 2017 and 2018. Proceedings of the North Central Weed Science Society of America Annual Meetings, Milwaukee, WI.
- Kruger, G., G.S. Alves, D. Reynolds, B.G. Young, P. Sikkema, C. Sprague, **R. Werle**, J.K. Norsworthy, and R. Rector. 2018. Large scale drift trials to assess off-target movement of dicamba. Proceedings of the North Central Weed Science Society of America Annual Meetings, Milwaukee, WI.
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- Liu, L., M.C. Oliveira, and **R. Werle**. 2018. 2018 Wisconsin cropping systems weed science survey – where are we at? Proceedings of the North Central Weed Science Society of America Annual Meetings, Milwaukee, WI.
- Zimbric, J.W., D.E. Stoltenberg, M. Renz, and **R. Werle**. 2018. Herbicide resistance in Wisconsin: an overview. Proceedings of the North Central Weed Science Society of America Annual Meetings, Milwaukee, WI.
- Renz, R., S. Striegel, R.P. DeWerff, N. Arsenijevic, V.H.V. Ribeiro, M.C. Oliveira, B. Luck, and **R. Werle**. 2018. Impact of carrier volume rate on PRE-emergence herbicide efficacy in Wisconsin cropping systems. Proceedings of the North Central Weed Science Society of America Annual Meetings, Milwaukee, WI.
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- Butts, T.R., M.C. Oliveira, N. Arsenijevic, S.P. Conley, and **R. Werle**. 2018. Tolerance of Midwest soybean cultivars to preemergent applications of metribuzin and sulfentrazone. Proceedings of the North Central Weed Science Society of America Annual Meetings, Milwaukee, WI.
- Arsenijevic, N., S. Striegel, V.H.V. Ribeiro, M.C. Oliveira, and **R. Werle**. 2018. Screening of soybean variety tolerance to PRE-emergence herbicides sulfentrazone (PPO) and metribuzin (PSII). Proceedings of the North Central Weed Science Society of America Annual Meetings, Milwaukee, WI.
- Arsenijevic, N., M. Avellar, A.T. Rosa, G.S. Vieira, L.E. Butts, and **R. Werle**. 2018. Impact of PPO and PSII soil-applied herbicides on early season soybean development and grain yield. Proceedings of the North Central Weed Science Society of America Annual Meetings, Milwaukee, WI.
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- Oliveira, D. Giacomini, P. Tranel, G.S. Vieira, N. Arsenijevic, and **R. Werle**. 2018. Molecular and greenhouse validation of field-evolved resistance to glyphosate and PPO-inhibitors in Palmer amaranth. Proceedings of the North Central Weed Science Society of America Annual Meetings, Milwaukee, WI.

- Rosa, A.T., I.K.P. Faria, L.E. Butts, C.F. Creech, R. Elmore, D. Rudnick, and **R. Werle**. 2018. Effects of cover crop planting and termination time on weed demographics and corn productivity in semi-arid rainfed cropping systems of western Nebraska. Proceedings of the North Central Weed Science Society of America Annual Meetings, Milwaukee, WI.
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- Treptow, D.G., **R. Werle**, A. Jhala, M. Yerka, B. Tenhumberg, and J. Lindquist. 2018. Time of Johnsongrass (*Sorghum halepense*) seedling emergence in Nebraska. Proceedings of the North Central Weed Science Society of America Annual Meetings, Milwaukee, WI.
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- Proctor, C.A., E. Haramoto, D.D. Redfearn, J. Parsons, A.J. McMechan, R.W. Elmore, L.E. Lindsey, M. Drewnoski, S.R. Everhart, **R. Werle**, and J. Wehrbein. 2018. Impact of planting date on fall seeded cover crops biomass production. Proceedings of the ASA-CSSA-CSA Meetings, Baltimore, MD.
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