

Curriculum Vitae – Johanna A. “Anita” Dille

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PROFESSIONAL EXPERIENCE

July 2018 - present	Professor, Weed Ecology, and Assistant Head for Teaching Agronomy Dept., Kansas State University 50% Research and 50% Teaching appointment in area of Weed Ecology 25% Directed Service in academic programs
July 2012 – June 2018	Professor, Weed Ecology Agronomy Dept., Kansas State University
July 2005 – June 2012	Associate Professor, Weed Ecology Agronomy Dept., Kansas State Univ. Visiting Scientist Sabbatical Leave (July 1 to Dec. 31, 2007) Biological and Agricultural Engineering Dept., Kansas State Univ.
November 1999 – June 2005	Assistant Professor, Weed Ecology Agronomy Dept., Kansas State Univ.

EDUCATION

1994 – 1998	<u>University of Nebraska</u> , Lincoln, Nebraska Ph.D. Dissertation Title: Spatial biology of weed populations: Influence of abiotic, biotic, and anthropogenic processes.
1992 – 1994	<u>University of Guelph</u> , Guelph, Ontario M.Sc. Research Project Title: Modelling pigweed (<i>Amaranthus</i> spp.) interference in soybean (<i>Glycine max</i> (L.) Merr.) and determining decision rules for postemergence pigweed control.
1986 – 1991	<u>University of Guelph</u> , Guelph, Ontario Bachelor of Science in Agriculture (with Distinction) Major: Crop Science (Cooperative Education Program) Minor: International Agriculture

TEACHING EXPERIENCE

Recently taught Fall 2024	“Weed Science, AGRON 330”, Agronomy Dept. Introduction to basics of weed science. Organizing and presenting in-class sessions and preparing weekly hands-on laboratory sessions. Previously taught Spring and Fall, 2000-2003, Fall 2004 to 2006, 2008 to 2023
Recently taught Fall 2023	“Advanced Weed Ecology, AGRON 824”, Agronomy Dept. Organizing and presenting in-class sessions for graduate students. Focused on principles of weed ecology, discussion of research papers, and writing term papers. Previously taught

Spring 2001, 2003, Fall 2002, 2006, Spring 2008, Fall 2010, 2011, 2013, 2015, 2017, 2019, 2021

Recently taught Spring 2025	“Integrated Weed Management, AGRON 650”, Agronomy Dept. Coordinating, organizing and presenting in-class sessions for a team-taught course for undergraduate and MS students. Previously taught annually Spring 2004-2023
Recently taught Spring 2025	“Agronomy Capstone Experience, AGRON 602”, Agronomy Dept. Organized and co-taught (Kevin Donnelly; Kraig Roozeboom) capstone course for seniors in Agronomy focused on current issues, critical thinking and debating, and problem solving. Previously taught annually Spring 2012-2023
Recently taught Spring 2025	“Crop-Weed Science Team, AGRON 600-D”, Agronomy Dept. Organized and co-taught a lab course to review materials for the Collegiate Weed Science Contest hosted by North Central Weed Science Society each summer. Previously taught annually Spring 2015-2022
Recently taught Spring 2022	“World Food Crops, AGRON 325”, Agronomy Dept. Co-taught (Kevin Donnelly) course for general agriculture interest in topics of crop production and importance of global issues surrounding food.
Recently taught Fall 2022	“Crop Science, AGRON 220”, Agronomy Dept. Lead instructor of introductory crop science course with laboratory experience for freshmen students. Enrollment of ~65 students, managed 3 teaching assistants.
Spring 2009	“Natural Resources and Environmental Sciences Project, GENAG 583”, COA. Co-taught capstone course for seniors in NRES Secondary Major.
Fall 2009	“Agronomy Learning Farm Experience, AGRON 600C”, Agronomy Dept. Co-taught problems course for students interested in agronomics, economics and environmental issues on the Agronomy Learning Farm.
Spring 2005, 2007	“Integrated Weed Management, AGRON 650” – Distance Provided IWM in a distance format using DVDs in Spring 2005 and K-State online (DCE) narrated Powerpoint presentations in 2007.
2000 - present	Guest Lecturer – Kansas State Univ. “Site Specific Agriculture, AGRON 655 - Site-Specific Weed Management” (2004, 2019, 2020, 2021) “Cropping Systems, AGRON 640”, 2-hr panel discussion “Dealing with Pest Resistance Issues” Fall 2016. “Introduction to Scholarship and Discovery, GENAG 295”, 1-hr presentation on Research Opportunities in Agronomy (2012 - 2015) “Cropping Systems, AGRON 640”, 1-hr discussion “Weeds and their Impact-Competition” (2012) “Environmental History of Latin America, HIST 598”, 2-hr discussion (2010) “Sustainability Seminar, CHE 670 - Greenhouse Gases; Carbon Taxes and Trading; and Carbon Sequestration”, Panel member for 2-hr discussion (2010) “Crop Science, AGRON 220 – Weeds and Weed Control”, 4 in-class presentations (2000) “Chemical Application Systems, ATM 500”, two 1-hr sessions on technical innovations in weed management (2000)

PROFESSIONAL MEMBERSHIPS AND COMMITTEES

Weed Science Society of America (Past-President, 2022-23; **President 2021-22**; President-Elect and Program Chair, 2020-21; Vice-President, 2019-2020; **Treasurer, 2009-2012**; Board Member – NCWSS Rep. to WSSA, Dec 2005-2008)

North Central Weed Science Society (Past-President 2017; **President 2016**; President-Elect and Program Chair 2015; Vice-President 2014; Board Member - NCWSS Rep. to WSSA, Dec 2005-2008)

Gamma Sigma Delta, ETA chapter, Kansas State University (Secretary, 2005-2007; President-Elect 2008-2009, **President 2009-2010**, Past-President 2010-2011; Membership Chair, 2011-present; **President 2019-2020**)

NACTA – North American Colleges and Teachers of Agriculture (member since 1998)

Sigma Xi, Kansas State University

Western Society of Weed Science - member

Associate Editor – Weed Science journal (2013-2018)

Ad Hoc Reviewer for following journals: Weed Science; Weed Technology; Invasive Plant Science and Management; Weed Research; Weed Biology and Management; Agronomy Journal; Crop Science; Agricultural and Environmental Letters; Agrosystems, Geosciences & Environment; Industrial Crops; Technology in Agronomy; Pest Management Science; Crop Protection; Canadian Journal of Plant Science; PLOS One; Journal of Range Management; Crop, Forage and Turfgrass Management; Sustainability (MDPI); Acta Ecologica Sinica; Precision Agriculture. Ad hoc reviewer of research grant proposals.

AWARDS

Kansas State University Awards and Professional Development

Professorial Performance Award – K-State (2025)

Fellow Award – Weed Science Society of America (2025)

Affiliate Faculty, University Honors Program – K-State (2022)

Professorial Performance Award – K-State (2019)

Fellow Award – North Central Weed Science Society (2018)

Outstanding Teacher Award - Weed Science Society of America (2018)

Professional Agricultural Workers Conference – L.A. Potts Success Stories Award, co-PI Dr. Z. Wiley (2014)

WSSA –Outstanding Paper in Weed Science, co-author, Wortman et al. 2012, Weed Sci 60:440-450 (2014)

North Central Weed Science Society – Distinguished Achievement in Education Award (2011)

Commerce Bank Outstanding Undergraduate Teaching Award, Kansas State University (2011)

Gamma Sigma Delta – Outstanding Teaching Award, Kansas State University Chapter (2011)

NACTA Teacher Fellow Award – North American Colleges and Teachers of Agriculture (2010)

Class of LEAD21 (Leadership for the 21st Century) (2010-2011)

Mentoring Award – ASA-CSSA-SSSA Committee on Women in Agronomy, Crops, Soils, and Environmental Sciences (2009)

North Central Weed Science Society – Young Scientist Distinguished Achievement Award (2008)

Gamma Sigma Delta – Outstanding Advising Award, Kansas State University Chapter (2008)

Faculty Development Award “Precision Crop Protection Conference”, \$1200 – Kansas State University (2007)

Agronomy Society of America – Certificate of Excellence, Educational Materials Awards Prg (2007)

Sabbatical Leave, July 1-December 31, 2007 – Kansas State University

Faculty of the Semester – College of Agriculture (Fall 2005)

Gamma Sigma Delta – Early Career Award of Merit, Kansas State University Chapter (2003)

Sigma Xi – Outstanding Junior Scientist Award, Kansas State University Chapter (2003)

Agronomy Society of America – Certificate of Excellence, Educational Materials Awards Prg (2002)

REFEREED PUBLICATIONS (graduate student in Weed Ecology, † undergraduate student)**

Published, in press or accepted (career total 69):

Dhanda S**, Kumar V, Dille JA, Obour A, Yeager EA, Holman J (2025) Effect of fall-planted cover crops on weed suppression, grain sorghum yield, and profitability in the semi-arid Central Great Plains. Weed

- Science 73(e24), 1-11. doi: 10.1017/wsc.2024.100
- Dhanda S**, Kumar V, Geier PW, Currie RS, **Dille JA**, Obour A, Yeager EA, Holman J (2025) Synergistic effect of pyridate-based herbicide mixtures for controlling multiple herbicide-resistant kochia. *Weed Technol* 39(e25), 1-8. doi: 10.1017/wet.2024.58
- Dhanda S**, Kumar V, Manuchehri M, Bagavathiannan M, Dotray PA, **Dille JA**, Obour A, Yeager EA, Holman J (2025) Multiple herbicide resistance among kochia (*Bassia scoparia*) populations in southcentral Great Plains. *Weed Science* 73(e16), 1-10. Doi: 10.1017/wsc.2024.88
- Ugljic Z, Mobli A, Oliveira MC, Proctor CA, **Dille JA**, Werle R (2025) Stakeholder assessment of corn-soybean weed management practices and targeted spraying technologies perceptions. *Frontiers in Agronomy* doi: 10.3389/fagro.2025.1601328
- Yeager E, Tomlinson P, Fontes GP, Grunberg J, **Dille JA**, Arnet K, Roozeboom K (2025) Cover crops, double-crop soybean, and nitrogen rates affect productivity and profitability of a no-till rotation. *Agronomy Journal* 117: e70037 doi: 10.1002/agj2.70037
- Borgato E**, Thiagarayaselvam A, Peterson D, Hay MM, **Dille JA**, Jugulam M (2024) Metabolic resistance to protoporphyrinogen oxidase-inhibitor herbicides in a Palmer amaranth population from Kansas. *Journal of Agricultural and Food Chemistry* 72:5122-32. <https://doi.org/10.1021/acs.jafc.3c05333>
- Dhanda S**, Kumar V, **Dille JA**, Obour A, Yeager EA, Holman J (2024) Influence of cover crop residue and residual herbicide on emergence dynamics of glyphosate-resistant Palmer amaranth (*Amaranthus palmeri*) in grain sorghum. *Weed Science* 72:387-95. doi: 10.1017/wsc.2024.22
- Massigoge I, Baral R, Cominelli S, Denson E**, Helguera PG, Guareschi C, Simao LM, Rud JP, Pires CB, **Dille JA**, Lollato RP, Min D, Patrignani A, Ruiz Diaz DA, Hefley T, Lira S, Prasad PVV, Rice CW, Hatfield J, Ciampitti IA (2024) Exploring alternative crop rotations to continuous winter wheat for agricultural intensification in the US central Great Plains. *Agricultural Systems* 216:103879. <https://doi.org/10.1016/j.agsy.2024.103879>
- Simao LM, Cruppe G, Michaud JP, Schillinger WF, Ruiz Diaz D, **Dille JA**, Rice, CW, Lollato RP (2024) Beyond grain: Agronomic, ecological, and economic benefits of diversifying crop rotations with wheat. Chapter 2 In: *Advances in Agronomy*, Vol 186. Doi: 10.1016/bs.agron.2024.02.007
- Dhanda S**, Kumar V, Geier PW, Currie RS, **Dille JA**, Obour A, Yeager EA, Holman J (2023) Synergistic interactions of 2,4-D, dichlorprop-p, dicamba, and halauxifen/fluroxypyr for controlling multiple herbicide-resistant kochia (*Bassia scoparia* L.) *Weed Technology* 37:394-401 doi: 10.1017/wet.2023.48
- Ganie ZA, Soltani N, McKenzie-Gopsill AG, Felix J, Hutchinson PJS, **Dille JA**, Sikkema PH (2023) Potential potato yield loss from weed interference in the United States and Canada. *Weed Technology* 37:21-24 doi: 10.1017/wet.2023.5
- Barnhart IH**, Lancaster S, Goodin D, Spotanski J, **Dille JA** (2022) Use of open-source object detection algorithms to detect Palmer amaranth (*Amaranthus palmeri*) in soybean. *Weed Science* 70:648-62 doi: 10.1017/wsc.2022.53. KAES #23-042-J
- Geddes CM, Tidemann BD, Ikley JT, **Dille JA**, Soltani N, Sikkema PH (2022) Potential spring canola yield losses due to weeds in Canada and the United States. *Weed Technology* 36:891-897 doi: 10.1017/wet.2022.101
- Obour A, **Dille JA**, Holman J, Sancewich B, Kumar V (2022) Spring-planted cover crop effects on weed suppression and crop yield in no-tillage dryland crop production. *Crop Sci.* doi: 10.1002/csc2.20801. KAES #22-181-J
- Soltani N, Geddes C, Laforest M, **Dille JA**, Sikkema PH (2022) Economic impact of glyphosate-resistant weeds on major field crops grown in Ontario. *Weed Technology* 36:629-35 doi: 10.1017/wet.2022.72
- Flessner ML, Burke IC, **Dille JA**, Everman WJ, VanGessel MJ, Tidemann B, Manuchehri MR, Soltani N, Sikkema PH (2021) Potential wheat yield loss due to weeds in the United States and Canada. *Weed Technology* doi: 10.1017/wet.2021.78
- Gundy GJ**, **Dille JA** (2021) Implementing variable-rate herbicide applications based on soil physical properties in grain sorghum. *Precision Agriculture* doi: <https://doi.org/10.1007/s11119-021-09860-5> KAES #21-078-J
- Dille JA**, Stahlman PW, Thompson CR, Bean BW, Soltani N, Sikkema PH (2020) Potential yield loss in grain sorghum (*Sorghum bicolor*) with weed interference in the United States. *Weed Technol* 34:624-29 doi: 10.1017/wet.2020.12 KAES #20-159-J

- Kumar V, Obour A, Jha P, Liu R, Manuchehri MR, **Dille JA**, Holman J, Stahlman PW (2020) Integrating cover crops for weed management in the semi-arid US Great Plains: Opportunities and Challenges. *Weed Sci* 68:311-323.
- Shyam C, Borgato EA**, Peterson DE, **Dille JA**, Jugulam M (2020) Predominance of metabolic resistance in a six-way-resistant Palmer amaranth (*Amaranthus palmeri*) population. *Frontiers in Plant Science* 11:614-618 doi: 10.3389/fpls.2020.614618 KAES #21-083-J
- Hay MM**, **Dille JA**, Peterson DE (2019) Management of pigweed (*Amaranthus* spp.) in grain sorghum with integrated strategies. *Weed Technol* 33:701-709. doi:10.1017/wet.2019.64
- Hay MM**, **Dille JA**, Peterson DE (2019) Integrated pigweed (*Amaranthus* spp.) management in glufosinate-resistant soybean with a cover crop, narrow row widths, row-crop cultivation, and herbicide program. *Weed Technol* 33:710-719. doi:10.1017/wet.2019.62
- Hay MM**, Albers JJ**, **Dille JA**, Peterson DE (2019) Control of atrazine-resistant Palmer amaranth (*Amaranthus palmeri*) in double-crop grain sorghum. *Weed Technol* 33:115-122. doi:10.1017/wet.2018.102
- Osipitan OA**, **Dille JA** (2019) No impact of increased EPSPS gene copy number on growth and fecundity of glyphosate resistant kochia (*Bassia scoparia*). *Weed Sci* 67(1):22-28 doi: 10.1017/wsc.2018.82 AES#17-234-J
- Osipitan OA, **Dille JA**, Assefa Y, Radicetti E, Ayeni A, Knezevic SZ (2019) Impact of cover crop management on level of weed suppression: A meta-analysis. *Crop Science* 59:833-842
- Osipitan OA, **Dille JA**, Bagavathiannan MV, Knezevic SZ (2019) Modeling population dynamics of kochia (*Bassia scoparia*) in response to diverse weed control options. *Weed Sci* 67(1):57-67 doi: 10.1017/wsc.2018.85
- DeGreeff RD**, Varanasi AV, **Dille JA**, Peterson DE, Jugulam M (2018) Influence of plant growth stage and temperature on glyphosate efficacy in common lambsquarters (*Chenopodium album*). *Weed Technol* 32:448-453. Doi: 10.1017/wet.2018.38 (AES#17-317-J)
- Holman JD, Arnet K, **Dille JA**, Maxwell SR, Obour AK, Roberts T, Roozeboom K, Schlegel A (2018) Can cover or forage crops replace fallow in the semiarid Central Great Plains? *Crop Science* 58:1-13. doi: 10.2135/cropsci2017.05.0324 (AES#17-353-J)
- Kumar V, Jha P, **Dille JA**, Stahlman PW (2018) Emergence dynamics of kochia (*Kochia scoparia*) populations from the US Great Plains: A multi-site-year study. *Weed Science* 66:25-35. doi: 10.1017/wsc.2017.55
- Osipitan OA**, **Dille JA**, Assefa Y, Knezevic SZ (2018) Cover crop for early season weed suppression in crops: Systematic review and meta-analysis. *Agron J* 110:1-11. doi:10.2134/agronj2017.12.0752
- Soltani N, **Dille JA**, Gulden RH, Sprague CL, Zollinger RK, Morishita D, Lawrence NC, Sbatella GM, Kniss AR, Jha P, Sikkema PH (2018a) Potential yield loss in dry bean crops due to weeds in the United States and Canada. *Weed Technology* 32: doi:10.1017/wet.2017.116
- Soltani N, **Dille JA**, Robinson DE, Sprague CL, Morishita D, Lawrence NC, Kniss AR, Jha P, Felix J, Nurse RE, Sikkema PH (2018b) Potential yield loss in sugar beet due to weed interference in the United States and Canada. *Weed Technol* 32:749-753. doi: 10.1017/wet.2018.88
- Dille JA**, Stahlman PW, Du J, Geier PW, Riffel JD**, Currie RS, Wilson RG, Sbatella GM, Westra P, Kniss AR, Moechnig MJ, Cole RM (2017) Kochia (*Kochia scoparia*) emergence profiles and seed persistence across the Central Great Plains. *Weed Science* 65:614-625. doi: 10.1017/wsc.2017.18 (AES#16-287-J)
- Morris B†, **Dille JA** (2017) Soil feedback of garlic mustard (*Alliaria petiolata*) on oat (*Avena sativa*) plants. *RURALS: Review of Undergraduate Research in Agricultural and Life Sciences*. <http://digitalcommons.unl.edu/rurals/vol11/iss1/2>
- Osipitan OA**, **Dille JA** (2017) Fitness outcomes related to glyphosate resistance in kochia (*Kochia scoparia*): What life history stage to examine? *Frontiers in Plant Science – Agroecology and Land Use Systems*: DOI: 10.3389/fpls.2017.01090 (AES#17-189-J)
- Soltani N, **Dille JA**, Burke IC, Everman WJ, VanGessel MJ, Davis VM, Sikkema PH (2017) Perspectives on potential soybean yield losses from weeds in North America. *Weed Technology* 31: Doi: 10.1614/WT-D-16-00100.1. (AES#17-115-J)
- Soltani N, **Dille JA**, Burke IC, Everman WJ, VanGessel MJ, Davis VM, Sikkema PH (2016) Potential corn yield losses due to weeds in North America. *Weed Technology* 30: Doi: 10.1614/WT-D-16-00046.1. (AES#16-332-J)

- Werle R, Jhala AJ, Yerka MK, **Dille JA**, Lindquist JL (2016) Distribution of herbicide-resistant shattercane and johnsongrass populations in sorghum production areas of Nebraska and northern Kansas. *Agron. J.* 108:1-8. doi:10.2134/agronj2015.0217.
- Godar AS, Stahlman PW, Jugulam M, **Dille JA** (2015) Glyphosate-resistant kochia (*Kochia scoparia*) in Kansas: EPSPS gene copy number in relation to resistance levels. *Weed Science* 63:587-595. doi: 10.1614/WS-D-14-00145.1. AES#15-238-J.
- Petrosino JS**, **Dille JA**, Holman JD, Roozeboom KL (2015) Kochia suppression with cover crops in southwestern Kansas. Online. *Crop, Forage & Turfgrass Management* 1: doi:10.2134/cftm2014.0078. AES#11-410-J.
- Varanasi VK, Godar AS, Currie RS, **Dille JA**, Thompson CR, Stahlman PW, Jugulam M (2015) Field-evolved resistance to four modes of action of herbicides in a single kochia (*Kochia scoparia* L Schrad.) population. *Pest Management Sci* 71:1207-1212. doi:10.1002/ps.4034. AES#14-359-J.
- Clay SA, Davis A, **Dille A**, Lindquist J, Ramirez AHM**, Sprague C, Reicks G, Forcella F. 2014. Common sunflower seedling emergence across the U.S. Midwest. *Weed Science* 62:63-70.
- Lou Y, Clay SA, Davis AS, **Dille JA**, Felix J, Ramirez AHM**, Sprague CL, and Yannarell AC. 2014. An affinity-effect relationship for microbial communities in plant-soil feedback loops. *Microbial Ecology* 67:866-876. (DOI 10.1007/s00248-013-0349-2)
- Davis AS, Clay S, Cardina J, **Dille J**, Forcella F, Lindquist J, Sprague C (2013) Seed burial physical environment explains departures from regional hydrothermal model of giant ragweed (*Ambrosia trifida*) seedling emergence in U.S. Midwest. *Weed Sci.* 61:415-421.
- Godar AS, Stahlman PW, **Dille JA**. (2013) Efficacy of tribenuron alone and following preemergence herbicides in tribenuron-resistant sunflower. Online. *Crop Management* doi:10.1094/CM-2013-0621-01-RS.
- Mueller, N.D., D.A. Ruiz Diaz, **J.A. Dille**, D.E. Shoup, D.B. Mengel, and L.W. Murray. 2013. Winter annual weed management and nitrogen rate effects on corn yield. *Agron. J.* 104:1077-1086 (doi:10.2134/agronj2012.0344).
- Ruf-Pachta EK**, DM Rule**, and **JA Dille**. 2013. Corn and Palmer amaranth (*Amaranthus palmeri*) interactions with nitrogen in dryland and irrigated environments. *Weed Science* 61:249-258. AES#11-385-J.
- Wortman, S.E., A.S. Davis, B.J. Schutte, J.L. Lindquist, J. Cardina, J. Felix, C.L. Sprague, **J.A. Dille**, AHM Ramirez**, G. Reicks, and S.A. Clay. 2012. Local conditions, not regional gradients, drive demographic variation of giant ragweed (*Ambrosia trifida*) and common sunflower (*Helianthus annuus*) across northern US maize belt. *Weed Science* 60:440-450.
- Godar, A.S., P.W. Stahlman, and **J.A. Dille**. 2011. Single and sequential applications of tribenuron on broadleaf weed control and crop response in tribenuron-resistant sunflower. *Weed Technology* 25:391-397.
- Jeschke, M.R., D.E. Stoltenberg, G.O. Kegode, **J.A. Dille**, and G.A. Johnson. 2009. Weed community emergence time affects accuracy of predicted corn yield loss by WeedSOFT. *Weed Technology* 23:477-485.
- Schuster, C.L.**, K. Al-Khatib, and **J.A. Dille**. 2008. Efficacy of sulfonylurea herbicides when tank mixed with mesotrione. *Weed Technology* 22:222-230.
- Schuster, C.L.**, K. Al-Khatib, and **J.A. Dille**. 2007. Mechanism of antagonism of mesotrione on sulfonylurea herbicides. *Weed Science* 55:429-434.
- Rider, T.W.**, J.W. Vogel**, **J.A. Dille**, K.C. Dhuyvetter, and T. Kastens. 2006. An economic evaluation of site-specific herbicide application. *Precision Agriculture* 7:379-392.
- Liphadzi, K.B.**, and **J.A. Dille**. 2006. Annual weed competitiveness as affected by preemergence herbicide in corn. *Weed Science* 54:156-165.
- Dille, J.A.** and D.M. Namuth. 2005. Appearance of herbicide resistance in a weed population (web lesson: <http://croptechnology.unl.edu/viewLesson.cgi?LessonID=998689386>). *Journal of Natural Resources and Life Sciences Education* 34:125-126.
- Liphadzi, K.B.**, K. Al-Khatib, C.N. Bensch, P.W. Stahlman, **J.A. Dille**, T. Todd, C.W. Rice, M.J. Horak, and G. Head. 2005. Soil microbial and nematode communities as affected by glyphosate and tillage practices in a glyphosate-resistant cropping system. *Weed Science* 53:536-545.
- Schmidt, A.A., W.G. Johnson, D.A. Mortensen, A.R. Martin, **J.A. Dille**, D.E. Peterson, C. Guza, J.J. Kells, R.D. Lins, C.M. Boerboom, C.L. Sprague, S.Z. Knezevic, F.W. Roeth, C.R. Medlin, and T.T. Bauman. 2005.

Evaluation of corn (*Zea mays* L.) yield loss estimations by WeedSOFT® in the north central region. Weed Technology 19:1056-1063.

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- Kerr, G.W., P.W. Stahlman, and **J.A. Dille**. 2004. Soil pH and cation exchange capacity affects sunflower tolerance to sulfentrazone. Weed Technology 18:243-247.
- Neeser, C., **J.A. Dille**, G. Krishnan, D.A. Mortensen, J.T. Rawlinson, A.R. Martin, and L.B. Bills. 2004. WeedSOFT: a weed management decision support system. Weed Science 52:115-122.
- Dille, J.A.**, M. Milner, J.J. Groetke, D.A. Mortensen, and M.M. Williams II. 2003. How good is your weed map? A comparison of spatial interpolators. Weed Science 51:44-55.
- Dille, J.A.**, D.A. Mortensen, and L.J. Young. 2002. Predicting weed species occurrence based on site properties and previous year's weed presence. Precision Agriculture 3:193-207.
- Dieleman, J.A.**, D.A. Mortensen, D.D. Buhler, C.A. Cambardella, and T.B. Moorman. 2000a. Identifying associations among site properties and weed species abundance. I. Multivariate analysis. Weed Science 48:567-575.
- Dieleman, J.A.**, D.A. Mortensen, D.D. Buhler, and R.B. Ferguson. 2000b. Identifying associations among site properties and weed species abundance. II. Hypothesis generation. Weed Science 48:576-587.
- Dieleman, J.A.** and D.A. Mortensen. 1999. Characterizing the spatial pattern of *Abutilon theophrasti* seedling patches. Weed Research 39:455-468.
- Dieleman, J.A.**, D.A. Mortensen, A.R. Martin, and D.Y. Wyse-Pester. 1999. Influence of velvetleaf (*Abutilon theophrasti*) and common sunflower (*Helianthus annuus*) density variation on weed management outcomes. Weed Science 47:81-89 [errata 47:254].
- Lindquist, J.L., **J.A. Dieleman**, D.A. Mortensen, G.A. Johnson, and D.Y. Wyse-Pester. 1998. Economic importance of managing spatially heterogeneous weed populations. Weed Technology 12:7-13.
- Dieleman, A.**, A.S. Hamill, G.C. Fox, and C.J. Swanton. 1996. Decision rules for postemergence control of pigweed (*Amaranthus* spp.) in soybean (*Glycine max* (L.) Merr.). Weed Science 44:126-132.
- Dieleman, A.**, A.S. Hamill, S.F. Weise, and C.J. Swanton. 1995. Empirical models of pigweed (*Amaranthus* spp.) interference in soybean (*Glycine max* (L.) Merr.). Weed Science 43:612-618.

EXTERNAL GRANTS FUNDED (Kansas)

P.I.	Title	Sponsor	Duration	Budget (Dille share)
Dille JA , Cott RLV, Ridder D, Adee E, Hibdon D	Exploring intensification and integrated weed management challenges for winter wheat production	Kansas Wheat Commission	7/1/25 to 6/30/25	\$35,753
Dille JA , G Jha, D Joshi, S Westbrook	Evaluating the effectiveness of drones for seeding cover crops into standing crops	USDA-NRCS – CIG for Kansas	(on hold) 7/1/25 to 6/30/27	\$83,261 +match \$83,300
Jha, G, Dille JA	Precision Agronomy Teaching Hub (PATH): Education through smart farm integration and training	CHS Foundation	1/1/24 to 12/31/25	\$258,000 (\$150,000)
Proctor C, Werle R, Dille JA	Site Specific Weed Management with Precision Application Technology	North Central Soybean Research Program	10/1/23 to 8/31/24	\$45,000 (\$15,000)
Proctor C, Werle R, Dille JA	Site Specific Weed Management with Precision Application Technology	North Central Soybean Research Program	10/1/22 to 8/31/23	\$45,000 (\$15,000)
Werle R, Proctor C, Dille JA	Evaluating the Agronomic Feasibility of Targeted Herbicide Applications	National Corn Growers Association	9/1/22 to 8/31/23	\$61,749 (\$9,900)

P.I.	Title	Sponsor	Duration	Budget (Dille share)
Lancaster S, Dille JA , Bish M, Bradley K, Ikley, Johnson, Werle	Weed seedbank depletion: investigating an overlooked benefit of cover crops	North Central Soybean Research Program	10/1/21 to 9/30/22	\$35,466 (\$0)
Dille JA , Ade E, Sassenrath G	Impact of cover crop termination management on corn and weed establishment and growth (year 2)	Kansas Corn commission	7/1/20 to 6/30/21	\$30,423
Dille JA , Sassenrath G	Improving soil health, weed management and profitability with cover crops and precision conservation systems in SE Kansas	USDA-NRCS – Kansas CIG	9/30/19 to 9/29/21	\$74,923
Rice CW, et al.	Increasing water productivity, nutrient efficiency and soil health in rainfed food systems of semi-arid southern Great Plains	USDA-NIFA-Sustainable Agricultural Systems	9/1/19 to 8/31/24	\$9,912,711 (share = ~\$200,000)
Dille JA , Ade E, Sassenrath G	Impact of cover crop termination management on corn and weed establishment and growth (year 1)	Kansas Corn commission	7/1/19 to 6/30/20	\$30,423
Hay MM**, Dille JA , Peterson DE, Roozeboom KL, Shoup D	Control of pigweed with an integrated systems approach in soybean (**Lead PI MM Hay) year2	Kansas Soybean Commission	3/1/18 to 2/28/19	\$30,851
Haramoto ER, Gage KL, Smeda RJ, Dille JA	Integrated management techniques to combat potential shifts in horseweed emergence.	USDA-NIFA-Crop Protection and Pest Management	9/1/17 to 8/31/19	\$324,956 (KSU \$73,750)
Hay MM**, Dille JA , Peterson DE, Roozeboom KL, Shoup D	Control of pigweed with an integrated systems approach in soybean (Lead PI MM Hay)	Kansas Soybean Commission	3/1/17 to 2/28/18	\$30,851
Dille JA , Everman W	Ecology of grass weeds in grain sorghum: Critical period weed control	United Sorghum Checkoff Program #C1002-16	4/1/16 to 3/31/18	\$160,000 (KSU \$80,000)
Dille JA , Asebedo AR, Du J, Hettiarachchi G, Kluitenberg G	Precision crop protection: Soil management zones for optimizing weed control efficacy	USDA-NIFA-AFRI Foundational Program for Exploratory Research	2/14/16 to 2/13/18	\$100,000

P.I.	Title	Sponsor	Duration	Budget (Dille share)
Dille JA, Wiley ZZ	Transfer Student BRIDGE – Bridging Relationships to Internships and Diverse Group Experiences	USDA-NIFA-Women and Minorities in Science, Technology, Engineering and Mathematics	10/1/11 to 9/30/13	\$113,915
Westra P, Chisholm S, Stahlman PW, Dille JA	Evolution, spread, and mechanisms of glyphosate resistance in kochia	USDA-NIFA-AFRI Foundational Program - Controlling Weedy and Invasive Plants	1/1/12 to 12/31/15	\$500,000 (\$200,000)
Dille JA, Thompson CR	Dynamics of nitrogen rate and form, annual weeds, and soil-applied herbicides	Kansas Grain Sorghum Commission	10/1/11 to 9/30/12	\$10,000
Dille JA, Holman JD, Roozeboom KL, Klocke NL, Schlegel A	Decision matrix for weed management: cover crops, Palmer amaranth density, water, and nitrogen.	USDA-CSREES – North Central IPM program	6/15/07 to 6/14/09	\$157,735
Dille JA, Stahlman PW, Dhuyvetter KC	In-field decision making tool for site-specific weed management	USDA-CSREES – North Central IPM program	6/1/05 to 5/31/07	\$92,594
Dille JA, Stahlman PW, Kastens T, Staggenborg SA, Taylor R, Wolf RE, Zhang N	Implementing practical and cost-effective approaches to site-specific weed management	USDA-CSREES – North Central IPM program	6/1/03 to 5/31/05	\$105,373
Dille JA, Schmidt JP, Taylor RK, Thien SJ	Experiential learning integrated across the Agronomy curriculum	USDA-CSREES Higher Education Challenge Grant	7/1/02 to 6/30/04	\$90,826 (+KSU match \$90,826)
Dieleman JA, Lindquist JL, Johnson GA	Post-control weed competitiveness as input into a weed management DSS	USDA-CSREES North Central IPM program	7/1/00 to 6/30/02	\$82,879 (KSU \$42,879)

CONTRACTS (Kansas)

National Corn Growers Association, 2025, Targeted Sprayer Technologies. **JA Dille**, Kansas State University, \$20,000 (\$60,000 total with R Werle (UWisc) and C Proctor (UNL)).

Winfield United, 2023. Evaluation of adjuvant technologies using smart-sprayer. **JA Dille**, Kansas State University, \$15,000.

BASF Corp / Xarvio Digital Farming, 2021-2025. Smart sprayer evaluations. **JA Dille**, Kansas State University, \$45,521 (year 1), \$95,161 (years 2&3).

Xarvio Digital Farming Solutions (was Bayer Digital Farming), 2018-2021. Weed Image Collection via iCatcher app. **JA Dille**, Kansas State University, \$25,000.

DuPont, 2015-2017. Herbicide programs in Inzen Grain Sorghum. **JA Dille**, Kansas State University, \$11,500.

United Sorghum Checkoff Program, 2013-2016. ALS Resistance in shattercane and johnsongrass: current status and future predictions. **J.A. Dille**, Subcontract with University of Nebraska, \$10,000.

- DuPont, 2013-2016. Pollen-mediated gene flow from acetolactate synthase-inhibiting herbicides-resistant sorghum to johnsongrass. **J.A. Dille**, subcontract with University of Nebraska, \$20,000.
- Monsanto Co., 2010-2012. Kochia seedling emergence and seedbank dynamics across High Plains region. **J.A. Dille**, Kansas State University, \$76,500.
- Valent USA Corp., 2011. Root and shoot exposure of three plant species to herbicides. **J.A. Dille**, Kansas State University, \$3,950.
- Multistate Regional Project (NC-1191), USDA-NIFA. October 1, 2011-September 30, 2016. “Weeds as Phytometers in a Changing Environment”. **J.A. Dille**, State Representative.
- Multistate Regional Project (NC-1026), USDA-CSREES. October 1, 2005-September 30, 2010. “Characterize Weed Population Dynamics for Improved Long-Term Weed Management Decision Making.” **J.A. Dille**, State Representative
- Multistate Regional Project (NC-202), USDA-CSREES. October 1, 2000-September 30, 2005. “Characterizing weed population variability for improved weed management decision support systems to reduce herbicide use.” **J.A. Dieleman**, State Representative.
- FQPA Risk Avoidance and Mitigation for Major Food Crop Systems (RAMP), USDA-CSREES. October 1, 2001-September 30, 2004. “IWM Implementation: A Regional Approach.” **J.A. Dille** and D.E. Peterson, Kansas State University. Subcontract with University of Nebraska. \$36,000.
- Monsanto. May 1, 2001-April 30, 2005. “Ecological benefits of Roundup Ready Cropping Systems.” K. Al-Khatib, P.W. Stahlman, D.L. Regehr, **J.A. Dille**, C. Rice, K. McVay, R. Robel, T. Todd, and G. Wilde. Kansas State University, \$150,000.
- Agricultural Telecommunications Program, Cornell University and American Distance Education Consortium (ADEC). September 1, 2001-August 31, 2002. “Weed Science Electronic Library Modules.” **J.A. Dille**, Weed Ecology Content Expert, Collaborator with University of Nebraska. \$1,500.
- Special projects, USDA-CSREES. April 1, 2000-September 14, 2002. “Adaptation of WeedSOFT weed management decision aid software to Kansas.” **J.A. Dieleman** and D.E. Peterson, Kansas State University. Subcontract with University of Nebraska. \$25,500.

BOOK CHAPTERS & ENCYCLOPEDIA ENTRIES

- Clay SA, **Dille JA** (2020) Precision Weed Management. Chapter 5 In: Women in Precision Agriculture: Technological breakthroughs, Challenges and Aspirations for a Prosperous and Sustainable Future (Takoi Khemais Hamrita, ed). Springer Nature. https://doi.org/10.1007/978-3-030-49244-1_5
- Dille JA** (2019) Field studies to develop weed management programs for grain sorghum. Chapter 3 In: Sorghum: Methods and Protocols (Z Zhao, J Dahlberg, eds). Springer Science+Business Media, LLC; New York.
- Bagavathiannan M, Everman W, Govindasamy P, **Dille A**, Jugulam M, Norsworthy J (2018) Weed management in sorghum cultivation. Chapter 17 In: Achieving sustainable cultivation of sorghum Volume 1: Genetics, Breeding and Production Techniques (W Rooney, ed). Burleigh Dodds Science Publishing.
- Dille JA** (2017) Surveillance and monitoring of weed populations. Chapter 5 In: Integrated weed management for sustainable agriculture (R Zimdahl, ed). Burleigh Dodds Science Publishing. AES#18-072-B.
- Thompson CR, **Dille JA**, Peterson DE (2017) Weed Competition and Management in Sorghum. In: Agronomy Monographs 58, Sorghum: State of the Art and Future Perspectives: DOI: 10.2134/agronmonogr58.2014.0071. AES#17-145-B
- Dille, JA** (2015) 26. Weeds: Weed Biology. Encyclopedia of Applied Plant Sciences, 2e. (B Thomas, D Murphy, B Murray, eds.) Elsevier.
- Dille, JA** (2014) Plant morphology and critical period of weed control. Chapter 4 In: Automation: The Future of Weed control in Cropping Systems. (S.L. Young and F.J. Pierce, eds.) Springer Science+Business Media Dordrecht.
- Dille, JA**, J.W. Vogel, T.W. Rider, and R.E. Wolf. (2011) Creating and using weed maps for site-specific management. Chapter 17 In: GIS Applications in Agriculture, Volume Three: Invasive Species. (S.A. Clay, ed.) CRC Press, Boca Raton, FL.
- Dille, JA** (2004) Spatial distribution of weeds. Online: Encyclopedia of Plant and Crop Science (R.M. Goodman, ed.), Marcel Dekker, Inc., New York, NY. (Published 12/14/04) DOI: 10.1081/E-EPCS-120020252

- Dieleman, J.A.** and D.A. Mortensen. 1998. Influence of weed biology and ecology on development of reduced dose strategies for integrated weed management systems. Pages 333-362 In: Integrated Weed and Soil Management (J.L. Hatfield, D.D. Buhler, and B.A. Stewart, eds.), Ann Arbor Press, Inc., Chelsea, MI.
- Mortensen, D.A., **J.A. Dieleman**, and G.A. Johnson. 1998. Weed spatial variation and weed management. Pages 293-309 In: Integrated Weed and Soil Management (J.L. Hatfield, D.D. Buhler, and B.A. Stewart, eds.), Ann Arbor Press, Inc., Chelsea, MI.

GRADUATE STUDENT THESES / DISSERTATIONS

Major Professor:

Master of Science (22) order by year:

- Deines SR. 2002. Shattercane (*Sorghum bicolor* (L.) Moench) and common sunflower (*Helianthus annuus* L.) interference in corn (*Zea mays* L.) and light level influence on their relative competitiveness.
- Blinka EL. 2004. Growth analysis of shattercane (*Sorghum bicolor*), common sunflower (*Helianthus annuus*), Palmer amaranth (*Amaranthus palmeri*), and corn (*Zea mays*).
- Schirmacher K. 2004. Interference of eight annual weeds in corn (*Zea mays* L.) and soybean (*Glycine max* (L.) Merr.) in Kansas.
- Vogel JW. 2005. Implementing site-specific weed management in Kansas row crops.
- Ruf EK. 2007. Corn and weed interactions with nitrogen in dryland and irrigated environments.
- Petrosino JS. 2010. Response of weeds to the intensification of Kansas crop rotations with cover cropping.
- Unruh BJ. 2012. Influence of nitrogen on weed growth and competition with grain sorghum.
- Riffel JD. 2012. Yield response and economic impact of variable-rate nitrogen applications in grain sorghum.
- Esser AR. 2014. Maternal environmental factors influencing kochia (*Kochia scoparia*) seed characteristics.
- Christenson AM. 2015. Cover crops for horseweed [*Conyza canadensis* (L.)] control before and during a soybean crop.
- Hewitt CA. 2015. Effect of row spacing and seeding rate on grain sorghum tolerance of weeds.
- Shaffer G. 2016. Critical duration of grass weed interference in grain sorghum.
- Khadka S. 2017. Environment and hormone effects on seed biology of kochia (*Kochia scoparia*)
- McCall CM. 2017. Integrating cover crops and herbicides for horseweed and Palmer amaranth management in no-till soybean.
- VanLoenen EA. 2017. Evaluation of herbicide programs in acetolactate synthase-resistant grain sorghum.
- Albers JJ. 2018. Grass weed ecology and control of atrazine-resistant Palmer amaranth (*Amaranthus palmeri*) in grain sorghum (*Sorghum bicolor*).
- Gundy GJ. 2018. Variable-rate applications of soil-applied herbicides in corn and grain sorghum.
- Rains LJ III. 2019. Evaluating cover crops and herbicides for horseweed and Palmer amaranth management.
- Gastler LK. 2020. Influence of grain sorghum planting dates and Palmer amaranth emergence timings on competitive outcomes.
- Smith MM. 2021. Cover crops for early season weed suppression in corn.
- Hewitt AJ. 2022. Physical and allelochemical cover crop effects for weed suppression.
- Schroeder de Souza J. 2025. Optimizing soil-and foliar-applied herbicides for weed management.

Doctor of Philosophy (8) ordered by year

- Liphadzi KB. 2004. Weed competitiveness and soil health response to weed management practices.
- Rule DM. 2007. Corn and Palmer amaranth interactions in dryland and irrigated environments.
- Schuster CL. 2007. Weed science education and research: the Agronomy Learning Farm and mesotrione and sulfonyleurea herbicide interactions.
- Ndou AM. 2009. Interaction of weed emergence, weed density, and herbicide rate in soybean.

- Ramirez AHM. 2010. Dynamics of giant ragweed and common sunflower in Kansas: distribution, plant-soil feedback, and demography.
- Refsell DE. 2013. Integrated weed management in Kansas winter wheat.
- Osipitan OA. 2016. Relative ecological fitness of glyphosate-resistant kochia from western Kansas.
- Barnhart IH. 2024. Use of artificial intelligence to locate and treat weeds in Midwestern United States corn (*Zea mays*) and soybean (*Glycine max*) cropping systems.

Co-Major Professor:

Master of Science:

- DeGreeff, RD. 2015. Evaluation of glyphosate tolerance and influence of plant growth stage and temperature on glyphosate efficacy in common lambsquarters (*Chenopodium album* L.). (with Jugulam)

Doctor of Philosophy:

- Borgato, EA. 2023. Exploring the mechanisms of Palmer amaranth resistance to protoporphyrinogen oxidase-inhibitor herbicides, dynamics of gender, and management strategies. (with Jugulam)
- Dhanda, S. 2024. Integrated strategies to manage herbicide-resistant kochia and Palmer amaranth in Kansas cropping systems. (with Kumar)

Graduate Committee Member:

Masters of Science (11)

- Godar, AS. 2009. Weed control in herbicide-tolerant sunflower. Department of Agronomy.
- Harankhedkar, MN. 2003. Impact of turfgrass cultural practices on the development of tufted hardgrass (*Sclerochloa dura*). Department of Horticulture, Forestry, and Recreational Resources.
- Kerr, GW. 2002. Factors affecting sunflower tolerance to sulfentrazone. Department of Agronomy.
- Lally, NG. 2011. Pyrasulfotole & bromoxynil response in grain sorghum. Department of Agronomy.
- Mitchell, NJ. 2019. Herbicide programs for seasonal windmillgrass control. Dept. of Horticulture and Natural Resources.
- Perugini, LD. 2005. Longspine sandbur ecology, competitiveness, and control in cultivated sunflower. Department of Agronomy.
- Putman, JA. 2013. Palmer amaranth control in established alfalfa and documentation of glyphosate-resistant *Amaranthus* species in Kansas. Department of Agronomy.
- Raudenbush, Z. 2012. Springtime dandelion control in turfgrass using conventional and organic methods. Department of Horticulture, Forestry and Recreational Resources.
- Rider, TW. 2004. An economic evaluation of site-specific herbicide application. Department of Agricultural Economics.
- Vermey, D. 2008. Interactions between nitrogen and velvetleaf (*Abutilon theophrasti*) densities on glufosinate and glyphosate efficacy. University of Guelph, Department of Plant Agriculture. Adjunct Faculty appointment.
- Woitaszewski L. 2023. Cover crop management strategies for driver weeds in Kansas. Dept of Agronomy.

Doctorate (4)

- Mueller ND. 2012. Improving corn and soybean yield through fertility and weed management practices. Department of Agronomy.
- Godar AS. 2013. Glyphosate resistance in kochia. Department of Agronomy.
- Asebedo AR. 2015. Development of sensor-based nitrogen recommendation algorithms for cereal crops. Department of Agronomy.
- Hay MM. 2019. Integrated pigweed management in soybean and grain sorghum. Department of Agronomy.

INVITED PRESENTATIONS (36)

“Opportunities for site-specific weed management: BMP considerations for weed control with precision application equipment.” **Invited Presentation** for Symposium “New Frontiers in Application

- Technology” at 2022 North Central Weed Science Society annual meeting, December 7, 2022, St. Louis, MO.
- “Strategies to use cover crops for weed suppression” **Invited Presentation** for Eastern Nebraska Soil Health Conference. February 2, 2022, David City, NE (virtual)
- “Using Cover Crops for Weed Suppression Across Kansas” **Invited Presentation** at University of Nebraska-Lincoln Department of Agronomy & Horticulture Seminar Series. October 22, 2021, Lincoln, NE
- “Crop Yield Losses due to Weed Competition” **Invited webinar presentation**, WSSA-EPA seminar series, for EPA-OPP – Biological and Economic Analysis Division, May 7, 2020 (virtual).
- “Precision crop protection: soil management zones for optimizing weed control efficacy” **Invited presentation** for Symposium “The Role of Intelligent Machines in Weed Management” at 2020 Weed Science Society of America annual meeting. March 4, 2020, Maui, HI.
- “Integrating cover crops for weed suppression into a corn-soybean cropping system” **Invited presentations (2x)** at 31st Integrated Crop Management Conference, December 4, 2019, Ames, IA.
- “Site-specific Weed Management: Integrating ecology, technology, agronomics, & economics” **Invited presentation** at the Corteva Agriscience Plant Sciences Symposium, October 4, 2019, UIUC, Urbana-Champaign, IL.
- “Cover crops as part of integrated weed management.” **Invited presentation** at Soil Health U, sponsored by High Plains Journal, January 23, 2019, Salina, KS.
- “Cover crops for weed control in field crops.” Invited presentation (via Zoom) at 2019 Practical Farmers of Iowa annual conference, January 19, 2019, Ames, IA.
- “Weed Suppression with Cover Crops.” **Invited presentation** at MKC Winter Ag Symposium, December 13, 2018, Newton, KS.
- “Weed suppression with cover crops.” Midwest Cover Crops Council meeting, March 13-14, 2018, Fargo ND.
- “Cover crop suppression of weeds”. **Invited presentation** at Midwest Cover Crops Council Conference, March 13-15, 2018 in Fargo, ND.
- “Weed suppression with cover crops.” **Invited presentation** at Soil Health U, sponsored by High Plains Journal, January 24-25, 2018, Salina, KS.
- “Use of cover crops for weed suppression in field crops in Kansas.” Anita Dille and Josh Lloyd, at Midwest Cover Crops Council Conference, March 14-15, 2017 in Grand Rapids MI.
- “Site-specific Weed Management.” **Invited presentation** at 19th annual Kansas Agricultural Technologies Conference, sponsored by KARTA and KSRE, January 22, 2016 in Junction City, KS.
- “Can Cover Crops Fit into No-tillage Crop Production Systems in Eastern and Western KS?” **Symposium presentation** at 2010 North Central Weed Science Society Annual Meeting, December 15, 2010, Lexington, KY.
- “Developing algorithms and prescription maps for site-specific weed management.” **Symposium presentation** at 2010 WSSA/SRM Joint Annual Meeting, February 10, 2010, Denver, CO.
- “A Precision Weed Management Approach to Minimize Impacts.” **Invited symposium presentation** at 2009 ASA-CSSA-SSSA International Annual Meeting, November 2, 2009, Pittsburgh, PA.
- “Using GIS for site-specific weed management.” **Invited presentation** at the 6th International IPM Symposium, March 24-26, 2009. Given by J.W. Vogel.
- “Variable Rate Application Technologies for Weed Management”. **Presentation** at 2nd Conference on Precision Crop Protection, October 10-12, 2007, Bonn, Germany.
- “Variable Rate Application Technologies for Weed Management”. **Invited symposium presentation**, Special Symposium - Application Technology, 2007 annual Western Society of Weed Science meeting, March 13-15, 2007, Portland, OR.
- “Variable Rate Application / Variable Rate Mapping”. **Invited speaker**, Ag Technology Field Day, August 1, 2006, Great Bend, KS.
- “Experiences and Reflections on the Path to an Academic Career”. **Invited symposium presentation**, Symposia: Life after Graduate School, 2006 annual Western Society of Weed Science meeting, March 14-16, 2006, Reno, NV.
- “Experiential Learning Through a Learning Farm”. **Invited presentation and Tour Leader** of Learning Farm, Symposia: Experiential Learning: Design Through Assessment, North Central Region Teaching Symposium, May 23-25, 2005, Manhattan, KS.

- “Integrated and Site-Specific Weed Management Research”. **Invited presentation**, 7th Annual Precision Agriculture Technologies Conference, Jan. 21, 2004, Hutchinson, KS.
- “How weed communities respond to changing environments.” **Invited Symposium presentation**, Symposia: Weed Community Shifts, 2002 annual North Central Weed Science Society meeting, Dec. 2-5, 2002, St. Louis, MO.
- “Applying ecological principles to improve weed management”. **Invited presentation**, Department of Botany and Plant Pathology Seminar Series, Purdue University, October 2-3, 2002, West Lafayette, IN.
- “Integrated and site-specific weed management (ISSWM).” **Invited presentation** and panel discussion, Exploring New Frontiers in Integrated Pest Management, International IPM Conference, March 24-16, 2002, Toronto, ON, Canada.
- “Using landscape features to locate and manage weed patches: Case study with velvetleaf.” **Invited Symposium presentation**, Symposia: Site Specific Weed Management – Integrating Biology with Spatially Variable Decision Making, 2000 annual North Central Weed Science Society meeting, Dec. 11-14, 2000, Kansas City, MO.
- “Precision Agriculture: Using spatial distribution of weeds for management.” **Invited presentation**, Kansas State University/Agrilience – Summer Field Diagnostic School, July 11-13, 2000, Manhattan, KS.
- “Describing linkages between site-specific and integrated weed management.” **Invited presentation**, Third International Weed Control Congress - IWSC, June 6-11, 2000, Foz do Iguasso, Brazil.
- “Weed population dynamics: Agro-ecological aspects influencing patch persistence.” **Invited presentation**, Spatial Aspects of Weed Populations and Site Specific Management Symposium, 1997 annual Western Society of Weed Science meeting, March 11-13, 1997, Portland, OR.
- “Dynamics of weed patches.” **Invited presentation** at the Agronomy Highlights Conference sponsored by the Department of Agronomy, Univ. of Nebraska, Dec. 17, 1996, Lincoln, NE.
- “Linking field-scale variability of soil properties to weed distributions: A multivariate analysis.” **Second Place Graduate Student Paper**. NCWSS meeting, Dec. 5-7, 1995, Omaha, NE.
- “Reducing herbicide use through development of application methods and technologies.” **Invited presentation** with Dr. D.A. Mortensen at the 5th Annual Long-term Soil Management Workshop: Weed Biology, Soil Management, and New Approaches to Weeds, June 26-28, 1995, Ames, IA.
- “Reducing herbicide use through developments in methods and technologies for herbicide application.” **Invited presentation** with Dr. D.A. Mortensen, Symposium in Alternative Agricultural Systems: What is the Role of Weed Science, WSSA meeting, Jan. 30-Feb. 2, 1995, Seattle, WA.
- “Determination of economic thresholds of pigweed (*Amaranthus* spp.) in soybeans.” **Invited Graduate Student presentation** as recipient of Monsanto Weed Science Scholarship, Expert Committee on Weeds, National meeting, Dec. 6-8, 1993, Edmonton, AB.

PROCEEDINGS

- Gundy GJ**, **Dille JA**, Asebedo AR (2017) Efficacy of variable rate soil-applied herbicides based on soil electrical conductivity and organic matter differences. In: Proceedings of the 11th European Conference on Precision Agriculture, Advances in Animal Bioscience 8(2):277-282.
- Lorence AA, Ruiz Diaz DA, **Dille JA**, Edwards CL, Asebedo AR (2014) Evaluation of weed management strategies on grain sorghum nitrogen status and grain yield using optical sensors. Proc. North Central Extension-Industry Soil Fertility Conf. 30:90-95.
- Vogel JW**, Wolf RE, **Dille JA** (2005) Evaluation of a variable rate application system for site-specific weed management. 2005 ASAE Annual International Meeting, Tampa, FL, Paper No. 051120.
- Stahlman, P.W., **J.A. Dille**, and T.W. Rider** (2003) Integrating site-specific weed management. International Soil Tillage Research Organization Conference, Brisbane, Australia, p. 1166-1170.
- Dille, J.A.** (2002) Potential for site-specific and forecasting technologies. International IPM Conference: Exploring New Frontiers in IPM, Toronto, ON, Canada, p. 33-36.
- Dieleman, J.A.**, D.A. Mortensen and L.J. Young (1999) Predicting within-field weed species occurrence based on field site attributes. Pages 517-528 In: Precision Agriculture '99, Proceedings of the 2nd European Conference on Precision Agriculture (J.V. Stafford, ed). BIOS Sc. Publ., Oxford, UK.
- Mortensen, D.A. and **J.A. Dieleman** (1998) Why weed patches persist: dynamics of edges and density. Pages 14-19 In: Precision Weed Management in Crops and Pastures (R.W. Medd and J.E. Pratley, eds), R.G. and F.J. Richardson Publishers, Melbourne, Australia.

Mortensen, D.A. and **J.A. Dieleman** (1997) The biology underlying weed management treatment maps in maize. Proceedings, Brighton Crop Protection Conference – Weeds 2:645-648.

ABSTRACTS (graduate student and † undergraduate student)**
(2019 to 2025 listed)

- Haramoto E, Shepard C, **Dille A**, Gage K, Smeda RJ (2025) Impact of weather, soil, and size on horseweed winter survival. Proc WSSA/CWSS Abstr 65:96
- Schroeder de Souza J**, **Dille A** (2025) Impact of sulfentrazone and chlorimuron on soybean development in soils with different textures and pH. Proc WSSA/CWSS 65:213
- Dille A**, Enrria J†, Oliveira M (2025) Ecological impact of weed management programs using a targeted sprayer in corn and soybean in Kansas. Proc WSSA/CWSS 65:297
- Dhanda S**, Kumar V, **Dille A**, Obour A, Yeager E, Holman J (2024) Multiple resistance to glyphosate, dicamba, chlorsulfuron, fluroxypyr and atrazine in kochia (*Bassia scoparia*) from Southcentral Great Plains. Proc WSSA/SWSS Abstr 64:113
- Dhanda S**, Kumar V, **Dille A**, Obour A, Yeager E, Holman J (2024) Impact of growing cover crops on weed suppression, crop yields, and profitability in semiarid Great Plains. Proc WSSA/SWSS Abstr 64:232
- Dhanda S**, Kumar V, **Dille A**, Obour A, Yeager E, Holman J (2024) Replacing fallow with cover crops for weed suppression in semiarid Central Great Plains. Proc WSSA/SWSS Abstr 64:405
- Enrria J**, Oliveira M, Montoya A†, Macagno C†, **Dille A** (2024) Evaluation of weed management programs using the ONE SMART SPRAY in corn and soybean in Kansas. Proc NCWSS Abstr 79:181
- Schroeder de Souza J**, **Dille A**, Jugulam M (2024) Confirmation of multiple herbicide resistance in waterhemp (*Amaranthus tuberculatus*) population from Northeast Kansas. Proc NCWSS Abstr 79:72
- Schroeder de Souza J**, Hettiarachchi G, Westbrook S, **Dille A** (2024) Effects of soil texture and pH on level of soybean (*Glycine max*) injury to sulfentrazone and chlorimuron. Proc NCWSS Abstr 79:113
- Barnhart I**, Miller K, Kruger G, Proctor C, Vitti TH, **Dille A** (2023) Targeted precision weed control using the ONE Smart Sprayer™ in soybeans. Proc NCWSS Abstr 132
- Barnhart IH**, Kruger G, Miller KA, Proctor C, Werle R, **Dille A** (2023) Comparison of weed control outcomes when using precision application versus traditional approaches in corn (*Zea mays*). Proc WSSA Abstr 63:331
- Barnhart IH**, Proctor C, Vitti TH, Miller KA, Kruger G, **Dille A** (2023) Weed control in soybeans (*Glycine max*) using precision sprayers. Proc WSSA Abstr 63:332
- Dhanda S**, Kumar V, Obour A, Yeager E, Holman J, **Dille A** (2023) Response of glyphosate-resistant kochia (*Bassia scoparia*) to dichlorprop-P, 2,4-D, dicamba alone or their premixture. Proc WSSA Abstr 63:14
- Dhanda S**, Kumar V, Obour A, Yeager E, Holman J, **Dille A** (2023) Effect of fall- or spring-planted cover crops on weed suppression in High Plains. Proc WSSA Abstr 63:255
- Marrs MR**, Kumar V, **Dille A**, Liu R, Obour A (2023) Optimizing dicamba and glufosinate application timings for weed control in XtendFlex soybeans in central Kansas. Proc WSSA Abstr 63:24
- Schroeder de Souza J**, **Dille A**, Barnhart I, Edwards RJ, Hunsinger A (2023) Evaluation of adjuvants for maximizing herbicide performance of saflufenacil or glyphosate. Proc NCWSS Abstr 78:23
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EXTENSION PUBLICATIONS

- Dhanda S**, Kumar V, Obour A, **Dille A**, Holman J (2022) Fall-planted cover crops for weed suppression in western Kansas. Kansas Agricultural Experiment Station Research Reports: Vol. 8: Iss. 4. <https://doi.org/10.4148/2378-5977.8308>
- Dille J, Hewitt A**, Sassenrath G (2022) Using cover crops to suppress weeds and improve soil health. Kansas Agricultural Experiment Station Research Reports. Vol. 8: Iss. 3. <https://doi.org/10.4148/2378-5977.8284>
- Dille JA**, Chism L**, Sassenrath GF (2021) Using Cover Crops to Suppress Weeds and Improve Soil Health. Kansas Agricultural Experiment Station Research Reports. Vol 7: Iss 2. <https://doi.org/10.4148/2378.5977.8052>

- Chism LJ**, **JA Dille**, GF Sassenrath (2019) Using cover crops as an effective weed control method in Southeast Kansas. Kansas Agricultural Experiment Station Research Reports: 5(2):
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- Obour AK, Holman JD, **Dille JA**, Kumar V (2019) Effects of spring-planted cover crops on weed suppression and winter wheat grain yield in western Kansas. Kansas Agricultural Experiment Station Research Reports: Vol 5: Iss 6. <https://doi.org/10.4148/2378-5977.7784>
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- MF-2781, “Optimizing and Preserving Glyphosate Performance”. B. Olson, D. Peterson, P. Stahlman, C. Thompson, J. Falk, D. Regehr, K. Al-Khatib, R. Currie, **J.A. Dille**, and P. Geier. 2007. Kansas State Research and Extension Bulletin.
- MF-2767, “Glyphosate Stewardship”. D. Peterson, B. Olson, K. Al-Khatib, R. Currie, **J.A. Dille**, P. Geier, D. Regehr, P. Stahlman and C. Thompson. 2007. Kansas State Research and Extension Bulletin.

EXTENSION and Recruitment PRESENTATIONS (2019 to 2025 listed)

- June 23, 2025. Agronomy presentation for 2025 Jr MANRRS Switzer Nicodemus Educational camp, Manhattan
- June 5, 2025. 4H Discovery Days – 2 sessions of “Crops and Weeds”, Agronomy Education Center, Manhattan
- May 29, 2025. “Crops and Weeds” FFA Convention workshop, Agronomy Education Center
- May 21, 2025. “Weed Identification Training – Interns” CropQuest, Dodge City
- February 18, 2025. “Weed Biology, Ecology, and ID” Basic Noxious Weed Short Course, KDA, Manhattan
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- July 16-17, 2024 “Feeding Your Future-Agronomy Day” HS student summer camp, Agronomy Education Center
- July 9 & 12, 2024. KARA/KSU Diagnostic Field Days, co-presentation with Rachel Cott, Weed Identification (5 sessions), Manhattan
- June 6, 2024. 4-H Discover Days, “Crops and Weeds”, Agronomy Education Center, Manhattan
- May 22, 2024. “Weed Identification Training – Interns” CropQuest, Dodge City
- February 20, 2024. “Weed Biology, Ecology, and ID” Basic Noxious Weed Short Course, KDA, Manhattan
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- July 11 & 14, 2023. KARA/KSU Summer Diagnostic Field Days, Weed Identification (5 sessions) co- with Rachel Veenstra, Manhattan
- June 7 & 9, 2023. Two GROW/EXCITE summer workshop presentations on “Examining Flowers and Reproduction in Plants”, Manhattan
- June 8, 2023. 4H Discovery Days – “Crops and Weeds”, Agronomy Education Center, Manhattan
- March 6, 2023. “Introduction to Weed Biology and Ecology” Basic Noxious Weed Short Course, KDA, Manhattan
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- July 13, 2022. K-State Weed Science field day, “Efficacy of alternative cover crop termination methods” presentation, Ashland Bottoms Research Field, Manhattan
- July 12 & 15, 2022. KARA/KSU Summer Diagnostic Field Days, Weed Identification (6 sessions), Manhattan

June 9, 2022. Two GROW/EXCITE Summer Workshop presentations on “Examining Flowers and Reproduction in Plants”, Manhattan

June 2, 2022. 4H Discovery Days – all day Agronomy session, “Crops and Weeds” and “Flowering Plants”, Agronomy Education Center, Manhattan

June 1, 2022 “Crops and Weeds” FFA Convention presentation, Agronomy Education Center, Manhattan

March 7, 2022. “Introduction to Weed Biology and Ecology” Basic Noxious Weed Short course, KDA, Manhattan

March 2, 2022. County Weed Directors Association of Kansas (CWDAK) annual conference presentation “Invasive Plant Species Watch” presentation, Topeka, KS

July 21, 2021. County Weed Directors Association of Kansas (CWDAK) Summer conference presentation “Scouting and Mapping of Noxious and Invasive Plants”, Manhattan, KS

July 6 & 9, 2021. KARA/KSU Summer Diagnostic Field Days, Weed Identification (6 sessions), Manhattan

May 19, 2021 “Cover Crops, Soil Health, and Weed Control” Spring Crops Field Day, Southeast Research and Extension Center, Parsons

March 8, 2021. “Introduction to Weed Biology and Ecology” Basic Noxious Weed Short Course, KDA, Manhattan

March 3, 2021. CWDAK annual conference presentation “Review of Survey Methods to Document Occurrence of Noxious and Invasive Plants” (zoom)

March 3, 2021. CWDAK annual conference presentation “Using the Kansas Weed Risk Assessment tool to Evaluate Troublesome Plants” (zoom)

February 26, 2020. “Cover crops for weed suppression” Sumner County Conservation District – Soil Health Day, Wellington, KS

January 23, 2020. “Impact of cover crop termination management on corn and weed establishment and growth” Poster at Kansas Corn Symposium, Manhattan, KS.

January 16, 2020. “Cover crops for weed suppression”, Riley County Extension Coffee Shop Talk, Leonardville, KS

August 23, 2019. “Utilizing cover crops as a method of weed control” Flickner Innovation Farm field day, Moundridge, KS

July 9-12, 2019. KARA/KSU Summer Diagnostic Field Days, Weed Identification (6 sessions), Manhattan

May 30, 2019. 4H Discovery Days – offered Crops and Weeds Workshop at Agronomy Learning Farm (~ 15 4H participants)

March 26, 2019. “Intro to Weed Biology and Ecology”, Basic Noxious Weed Course, KDA, Manhattan

January 10, 2019. Pratt County Cover Crops Meeting “How to use cover crops for weed control” Pratt, KS