

Curriculum Vitae

Anders S. Huseth

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Department of Entomology and Plant Pathology
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Education

2013	Ph.D. Entomology	University of Wisconsin – Madison
2006	B.S. Physical Geography	University of Wisconsin – Stevens Point

Professional Experience

2017 – Present	Assistant Professor	North Carolina State University
2018 – Present	Center for Geospatial Analytics Fellow	North Carolina State University
2014 – 2017	Postdoctoral Research Associate	North Carolina State University
2013 – 2014	Postdoctoral Research Associate	Cornell University
2008 – 2013	Graduate Research Assistant	University of Wisconsin – Madison
2006 – 2007	Microbiology Laboratory Technician	University of Wisconsin – Madison
2006	Exotic Plant Botanist	North Cascades National Park
2001 – 2005	Entomology Field Technician	University of Wisconsin – Madison

Specialization and Areas of Interest

Applied Entomology / Integrated Pest Management
Insecticide Resistance Management
Biogeography
Landscape Ecology

Professional Societies

2007-present	Entomological Society of America
2004-present	Gamma Theta Upsilon Geographic Honors Society
2008-2011	Ecological Society of America

Honors and Awards

2013	Kinney Merit Award, University of Wisconsin – Madison, Department of Entomology
2011	Kinney Merit Award, University of Wisconsin – Madison, Department of Entomology
2008	Student and Young Professional Award, Entomology Society of America
2006	Gamma Theta Upsilon Annual Award for Excellence in Geography

Professional Service

Departmental and College

NC State Sweetpotato Field Day, Coordinator. College of Agriculture and Life Sciences, North Carolina State University. 2019 & 2020.

Proposal Reviewer. Soybean Extension Mini-Proposals. College of Agriculture and Life Sciences, North Carolina State University. January 2020.

Academic Awards Committee. Department of Entomology and Plant Pathology, North Carolina State University. January 2020-present.

Extension Planning and Training Committee. Department of Entomology and Plant Pathology, North Carolina State University. Autumn 2018-January 2020.

Entomology Graduate Student Admissions Committee, Department of Entomology, North Carolina State University. Autumn 2017-present.

Entomology Graduate Student Symposium Presentation Judge, Department of Entomology, North Carolina State University. Autumn 2015.

Advancement in Agricultural Studies Scholarship Committee, Student Association of the Geneva Experiment Station, Cornell University. Spring 2014.

Jugatae Student Association Symposium Presentation Judge, Department of Entomology, Cornell University. Autumn 2013.

Fruit Crops Entomologist Search Committee Student Representative, Department of Entomology, University of Wisconsin. Autumn 2011-Spring 2012.

Extension and Applied Research Committee Student Representative, Department of Entomology, University of Wisconsin. 2009-2013.

Insect Ambassadors, Entomology Graduate Student Association, Department of Entomology, University of Wisconsin. 2007-2015.

Linnean Games Team. North Central Entomological Society of America Branch Meeting, Minneapolis, MN March 13-16, 2011.

Butterfly House, Entomology Centennial Celebration. Department of Entomology, University of Wisconsin April 2009.

Wisconsin Garden Expo – Department Representative. Department of Entomology, University of Wisconsin. February 2008 & 2012.

State and Regional

Symposium Organizer. Improving control of a challenging pest group: biology and management of Elateridae in diverse agroecosystems. Joint Eastern & Southeastern Branch Entomology Society of America Meeting, March 31 - April 1, Atlanta, Georgia. (Cancelled due to COVID-19)

Working Group for Land Cover. Statewide Mapping Advisory Committee (SMAC) - State of North Carolina Geographic Information Coordinating Council. Spring 2018-Present.

Vice-Chair, Student Affairs Committee, North Central Branch Entomology Society of America. Spring 2010-Spring 2012.

Student Symposium Organizer. Odd Couples: Symbioses in Insects and their Consequences. North Central Branch - Entomology Society of America Meeting, June 3-6, 2012, Lincoln, Nebraska

Student Affairs Committee, North Central Branch Entomology Society of America. Spring 2009 - Spring 2012.

Academic Affairs Committee, North Central Branch Entomology Society of America. Spring 2009 - Spring 2012.

National

Ad-hoc Reviewer, Competitive Hatch Grant Program. College of Agriculture and Life Sciences, University of Wisconsin-Madison. November 2019.

Science Policy Fellow. Entomology Society of America. Autumn 2014 – Autumn 2016.

Writing Committee, ESA Position Statement on Insecticide Resistance Management. Entomology Society of America. Autumn 2015 – Spring 2016. <http://www.entsoc.org/press-releases/esa-position-statements-managing-insect-resistance-pesticides-and-gmos>

Program Symposium Organizer. Agricultural Intensification and Insect Communities: Production Tradeoff Challenges with 9 Billion on the Horizon. Entomology Society of America National Meeting, November 16-19, 2014.

Student Conservation Association Internship – North Cascades National Park, Marblemount, WA. Summer and Autumn 2006.

International

ERASMUS+. European Union's program to support education, training, youth, and sport in Europe. Research Staff Mobility Program. University of Zagreb, Zagreb Croatia. March 3-9, 2019.

International Entomology Leadership Summit: Improving the Human Condition through Insect Science. Hosted by the Entomological Society of America. September 27-28, 2016, Orlando, Florida.

Bill and Melinda Gates Foundation - Agricultural Research Connections Workshop. June 15-21, 2014, Nairobi, Kenya.

Bill and Melinda Gates Foundation – External proposal reviewer, Program for Emerging Agricultural Research Leaders (PEARLs). Winter 2014 – Winter 2016.

Discipline

Subject reviewer: Basic and Applied Ecology, Environmental Entomology, *Entomologia Experimentalis et Applicata*, Journal of Agricultural and Urban Entomology, Journal of Economic Entomology, PLoS ONE, Pest Management Science, Plant Health Progress.

Teaching Experience

Spatial Thinking in Pest Management: Connecting Places to Problems. Entomology 601/801. Department of Entomology and Plant Pathology, North Carolina State University. Spring 2019.

Insect Pest Management in Agricultural Crops. Entomology 762. Department of Entomology and Plant Pathology, North Carolina State University. Springs 2015, 2017, 2019.

Mentoring Experience

Doctoral students: Chair or Co-Chair

Tabatha Komar. Entomology and Plant Pathology, NCSU. September 2018-Present.

Project: Biological control service disruption of thrips and plant bug active Bt deployment.

Support: USDA Biotechnology Risk Assessment Grant.

Doctoral students: committee membership

Jing-Li Xuan. Entomology and Plant Pathology, NCSU. Chair: Brian Wiegmann. September 2018-Present.

Kellyn Montgomery. Center for Geospatial Analytics, NCSU. Chair: Helena Mitasova. April 2018-Present.

Caleb Wilson. Entomology and Plant Pathology, NCSU. Chair: Steve Frank. October 2019-Present.

Masters students: Chair or Co-Chair

Alyssa Pellegrino. Entomology and Plant Pathology, NCSU. September 2018-Present.

Project: Evaluation of cover crops and insect-resistant varieties to manage wireworm damage in sweetpotato.

Support: North Carolina Agricultural Foundation and NC Sweetpotato Commission.

James Goethe. Entomology and Plant Pathology, NCSU. September 2018-Present.

Project: Landscape effects of wheat abundance on herbivore density and damage in North Carolina agroecosystems.

Support: program startup.

Hayden Schug. Entomology and Plant Pathology, NCSU. September 2019-Present.

Project: Corn earworm economic thresholds for determinant and indeterminate soybean

Support: North Carolina Soybean Growers Association.

Post-doctoral advisees

Dr. Damon D'Ambrosio. PhD Entomology, North Carolina State University (2018). September 2018-March 2020.

Project: Seasonal abundance of *Lygus lineolaris* on cultivated and weedy hosts in North Carolina agroecosystems.

Support: USDA ARS-State Partnership Potato Program Grant.

Dr. Kristen Hopperstad. PhD Entomology, North Carolina State University (2018). June 2018-January 2020.

Project: Cross-commodity cotton bollworm Bt resistance in dynamic row crop landscapes.

Support: USDA Crop Protection and Pest Management Grant.

Masters students: committee membership

Thomas Ohmen. Entomology and Plant Pathology, NCSU. Chair: Jim Walgenbach. January 2018-Present.

Benjamin Arends. Entomology and Plant Pathology, NCSU. Chair: Dominic Reisig. September 2018-Present.

Staff Researchers

Amanda Lafferty. MS Biology, Western Carolina University (2018). Research Technician. July 2018-Present.

Sawyer Perez, BS Plant Biology, North Carolina State University (2019). Temporary Technician. September 2019-January 2020.

Formal Mentor Training

Thrips-Tospovirus Educational Network (TTEN) Mentor Training Workshop. D Ullman and G Kennedy (Facilitators). Advancing innovative technologies and integrated strategies for sustainable

management of thrips-transmitted tospoviruses. USDA AFRI NIFA Coordinated Agricultural Project. Autumn 2015-Spring 2016.

Undergraduate research mentor. “Spatial patterns of *Frankliniella fusca* oviposition and larval habitation on cotton.” TTEN Undergraduate Mentoring Program. Advancing innovative technologies and integrated strategies for sustainable management of thrips-transmitted tospoviruses. USDA AFRI NIFA Coordinated Agricultural Project. Autumn 2015-Spring 2016.

Contracts and Grants-In-Aid

Pending Funding

USDA-NIFA Biotechnology Risk Assessment Grant. 2020-2024. Unifying biological and environmental data streams to monitor emerging lepidopteran resistance to genetically engineered crops. PI Huseth AS, and Co-PIs Kennedy GG, Bozkurt A, Nelson N, and Reich B. Direct funding to my program: \$157,013 (Total award \$500,000).

USDA-NIFA Higher Education Challenge Grant Program (HECG). 2020-2024. Agroecological analytics library: open-access cyberinfrastructure for data-centric instruction. PI Nelson N, and Co-PIs Jones D, Ward J, Rellán-Álvarez R, Reading B, Beck A, Holt J, Doherty C, Huseth A, Ward S, Guertault L, Young S, Sayde C, McKee K, Birgand F, Porter E, McLemore A, Hendricks T, Worku M, Aryal N, Ejimakor G, Bogale T, Mekonnen A. Total award \$450,000.

USDA ARS-State Partnership Potato Program. 2018-2019. What’s that smell? Search for wireworm attractants and development of pheromone-based methods for monitoring and management. PI Cooper R, and Co-PIs Williams L, Millar J, Rashed A, Hanks L, Huseth A, Kuhar. Direct funding: \$26,026 (Total award \$166,083).

Cotton Incorporated. 2020. Collaborative Efforts to Manage Insect Pests of Cotton in the Southeast. PI Huseth AS, and Co-PIs Reisig DD. Direct funding: \$11,000 (Total award \$21,500).

North Carolina Sweetpotato Commission. 2019-2021. Documenting corn wireworm activity in North Carolina sweetpotato agroecosystems. PI Huseth AS. Direct funding: \$9,300.

Competitive Funding

2020

North Carolina Cotton Producers Association. 2020. Documenting pest development and movement from small grains into cotton. PI Huseth AS. Direct funding: \$7,700 (Total award \$7,700).

North Carolina Cotton Producers Association. 2020. Cotton Leafroll Dwarf Virus (CLRDV) survey in North Carolina. PI Thiessen LD, and Co-PI Huseth AS. Direct funding: \$1,500 (Total award \$6,000).

NC State CALS Research Committee Equipment Grant Program. 2020. Accelerating post-harvest research through improved curing and drying capability for specialty and field crops. PI Vann M, and Co-PIs Cahoon C, Dewey R, Ellington G, Herring C, Huseth A, Lewis R, Vann R, Schultheis J, Suchoff D, Thiessen L, and Woodley A. Total award \$12,971.

North Carolina Corn Growers Association. 2020. Identifying corn fields at risk for stink bug infestation. PI Reisig DD, and Co-PIs Sorenson CE, and Huseth AS. Direct funding to my program: \$2,000 (Total award \$20,057).

2019

- USDA-ARS NIFA Foundational and Applied Science Program – Food and Agriculture Cyberinformatics and Tools (FACT) Initiative. 2019-2023. Developing data-to-decision pipelines for agroecosystem management through high performance computing and big data analytics. PI Nelson NG, and Co-PIs Hunt WF, Huseth AS, Reich BJ, Hall SG. Total award \$492,162.
- USDA Foreign Agricultural Service – Technical Assistance for Specialty Crops (TASC). 2019. Integrated strategies to address trade barriers for export sweetpotatoes in the United States. PI Quesada-Ocampo LM, and Co-PIs Huseth AS, Bertone M, Schultheis JR, and Batts RB. Direct funding: \$90,000 (Total award request \$347,925).
- NC State Game-Changing Research Incentive Program for Plant Sciences Initiative (GRIP4PSI). 2019-2021. Improving crop productivity and value through heterogeneous data integration, analytics, and decision support platforms. PI Williams C, and Co-PIs Kudenov MW, Boyette MD, Nelson NG, Jones DS, Huseth AS, Kuzma J, Sozzani R, Ogan K. Total award \$556,250.
- USDA-NIFA Organic Research and Extension Initiative (OREI). 2019-2022. A multifaceted approach to production and pest management in organic sweetpotato systems. PI Jennings KM and Co-PIs Burgos NR, Huseth AS, Meyers S, Tseng TP, Quesada-Ocampo LM, Reberg Horton C, Schultheis J, Suchoff DH, Woodley AL. Direct funding: \$207,880 (Total award \$1,943,970).
- USDA Southern Integrated Pest Management Center. 2019-2020. Understanding tradeoffs for cover crop deployment in organic sweet potato. PI Huseth AS, and Co-PI Woodley AL. Direct funding: \$16,862 (Total award \$29,990).
- North Carolina Cotton Producers Association. 2019. Assessing Performance of Current *Bacillus thuringiensis* (Bt) Toxins Against Cotton Bollworm Using the North Carolina Damaged Boll Survey. PI Huseth AS, and Co-PIs Reisig DD, Collins GD. Direct funding: \$10,215 (Total award \$10,215).
- North Carolina Soybean Producers Association. 2019-2021. Building a smarter pheromone trap network: development of a real-time, infrared sensor for corn earworm pheromone traps. PI Huseth AS, and Co-PIs Nelson NG, Birgand F. Direct funding: \$26,600 (Total award \$26,600).
- Cotton Incorporated. 2019. Collaborative Efforts to Manage Insect Pests of Cotton in the Southeast. PI Huseth AS, and Co-PIs Reisig DD. Direct funding: \$9,348 (Total award \$21,500).
- Organic Farming Research Foundation. 2019-2020. Evaluating benefits of winter annual cover crop systems for organic sweet potato in North Carolina. PI Woodley AL, and Co-PIs Huseth AS, Reberg-Horton C. Direct funding: \$9,939 (Total award \$19,878).
- North Carolina Sweetpotato Commission. 2019-2021. Evaluation of Lorsban alternatives for wireworm management in North Carolina sweetpotato. PI Huseth AS. Direct funding: \$14,372 (Total award \$14,372).
- NC State CALS Research Committee Equipment Grant Program. 2019. Development of conservation tillage practices for North Carolina bedded systems. PI Suchoff D, and Co-PIs Reberg-Horton C, Huseth AS, Woodley AL, Vann M, Jennings K. Total award \$21,000.

2018

- USDA-NIFA Biotechnology Risk Assessment Grant (BRAG). 2018-2022. Understanding the potential for resistance and biological control impacts of thrips and plant bug active *Bt*

deployment. PI Huseth AS, and Co-PIs Ellsworth P, Naranjo S, Kennedy GG, Cohen A. Direct funding to my program: \$194,588 (Total award \$499,996).

USDA ARS-State Partnership Potato Program. 2018-2019. Potato cultivar sensitivity to feeding of three *Lygus* species. PI Cooper R, and Co-PIs Frost KE, Anderson J, Huseth AS, Groves RL. Direct funding: \$22,287 (Total award \$60,000).

North Carolina Agriculture Foundation. 2018-2021. Evaluation of entomopathogenic nematodes and insect-resistant varieties to manage wireworm damage in sweetpotato. PI Huseth AS. Graduate student support for 3 years.

Monsanto. 2018-2019. Dispersal and reproductive behavior of tobacco thrips (*Frankliniella fusca*) on MON 88702. PI Huseth AS, and Co-PI Kennedy GG. Direct funding: \$51,587 (Total award \$65,000).

NC State Non-Laboratory Scholarship/Research Support Program (NSRP). 2018. Leveraging geospatial climate data to solve environmental and agricultural problems in North Carolina. PI Huseth AS, and Co-PI Nelson NG. Total award \$4,790.

2017

USDA-NIFA Crop Protection and Pest Management. 2017-2020. Cross-commodity *Bt* resistance in dynamic row crop agroecosystems: linking the deployment of GE technology at the landscape scale to resistance in cotton bollworm. PI Huseth AS, and Co-PIs Reisig DD, Kennedy GG, Reay-Jones FPF, Greene JK. Direct funding: \$133,019 (Total award \$324,997).

USDA ARS Non-Assistance Cooperative Agreement. 2016-2021. Areawide pest management of the invasive sugarcane aphid in grain sorghum. PIs Ni X, and Elliott N, and Co-PIs Armstrong S, Bowling R, Brewer M, Buntin D, Giles K, Harris-Shultz K, Huang Y, Huseth A, Jacobson A, Knoll J, Knutson A, Lofton J, McCornack B, Michaud JP, Nuessly G, Punnuri S, Reay-Jones F, Reisig D, Royer T, Seuhs S, Szczepaniec A, Toews M, Vitale J, Westbrook J. Direct funding: \$95,368 (Total award \$2,922,000).

Grants Prior to Faculty Appointment

New York Vegetable Research Council and Association. 2014. Developing a risk assessment model for making European corn borer control decisions and optimizing insecticide use in snap bean. PI Nault BA, and Co-PI Huseth AS. Total award \$18,490.

Wisconsin Potato Industry Board's Distinguished Graduate Fellowship 2011. Management of neonicotinoid resistant Colorado potato beetles in Wisconsin potato agroecosystems. PI Huseth AS. Total award \$32,509.

North Central Region – Sustainable Agriculture Research and Education Graduate Student Grant. 2012. Improved scouting procedures and deployment of physical control tactics for Colorado potato beetle (*Leptinotarsa decemlineata*, Say) in Wisconsin Potato Production. PI Huseth AS. Total award \$9,742.

National Potato Council Academic Scholarship. 2011. Characterization of temporal neonicotinoid concentrations in potato. PI Huseth AS. Total award \$5,000.

R. Keith and Betty Chapman Distinguished Graduate Fellowship in Vegetable Entomology. 2008. PI Huseth AS. Total award \$30,260

Wisconsin Potato Industry Board's Distinguished Graduate Fellowship. 2007. PI Huseth AS. Total award \$32,509

Publications

Connections to my program have been designated as superscripts in author lines: as Corresponding Author^C, Graduate Student^G, Postdoc^P, Technician^T, Undergraduate^U.

2020

Clements J, Lamour K, Frost K, Dywer J, Huseth A, and Groves RL. 2020. Targeted RNA sequencing within *Leptinotarsa decemlineata* populations reveal patterns of transcript expression correlated with insecticide resistance in discrete geographic locations. *Pest Management Science*. *In review*.

Thiessen LD, Huseth A, Schappe T, Zaccaron M, Conner K, Koebernick J, and Jacobson A. 2020. First report of cotton leafroll dwarf virus affecting cotton in North Carolina. *Plant Disease*. *In review*.

D'Ambrosio DA^P, Kennedy GG, and Huseth AS. 2020. Feeding behavior of *Frankliniella fusca* on seedling cotton expressing Cry51Aa2. 834_16 Bt toxin. *Pest Management Science*. *In press*.

Dorman SJ, Schürch R, Huseth AS, and Taylor SV. 2020. Landscape and climatic factors driving spatiotemporal abundance of *Lygus lineolaris* in cotton agroecosystems. *Agriculture, Ecosystems and the Environment*. doi.org/10.1016/j.agee.2020.106910

D'Ambrosio DA^P, Kennedy GG, and Huseth AS^C. 2020. *Frankliniella fusca* and *Frankliniella occidentalis* response to thrips-active Cry51Aa2.834_16 Bt cotton with and without neonicotinoid seed treatment. *Crop Protection*. doi.org/10.1016/j.cropro.2019.105042

2019

Huseth AS^C, D'Ambrosio DA^P, Yorke BT, Head GP, and Kennedy GG. 2019. Novel mechanism of thrips suppression by Cry51Aa2.834_16 Bt toxin expressed in cotton. *Pest Management Science*. doi.org/10.1002/ps.5664

D'Ambrosio DA^P, Peele W, Hubers A, and Huseth AS^C. 2019. Seasonal dispersal of *Lygus lineolaris* (Hemiptera: Miridae) from weedy hosts into differently fragmented cotton landscapes in North Carolina. *Crop Protection*. doi.org/10.1016/j.cropro.2019.104898

Chappell TM, Huseth AS, and Kennedy GG. 2019. Stability of neonicotinoid sensitivity in *Frankliniella fusca* populations found in agroecosystems of the southeastern United States. *Pest Management Science*. doi.org/10.1002/ps.5319

D'Ambrosio DA, Huseth AS, and Kennedy GG. 2019. Determining *Frankliniella fusca* (Thysanoptera: Thripidae) egg distribution in neonicotinoid seed-treated cotton. *Journal of Economic Entomology*, 112(2), 827–834. doi.org/10.1093/jee/toy393

2018

Huseth AS^C, Chappell TM, Chitturi A, Jacobson AL, and Kennedy GG. 2018. Insecticide resistance signals negative consequences of widespread neonicotinoid use on multiple field crops in the US Cotton Belt. *Environmental Science & Technology*, 52:2314-2322. doi.org/10.1021/acs.est.7b06015

- Selected as the best Environmental Science article of 2018 in *Environmental Science & Technology*.
- Sedlak DL. 2018. *ES & T's Best Papers of 2018. Environmental Science & Technology*, 53:3343-3344. <https://pubs.acs.org/doi/10.1021/acs.est.9b01539>

Bradford BZ, Huseth AS, and Groves RL. 2018. Widespread detections of neonicotinoid contaminants in central Wisconsin groundwater. *PLoS ONE*, 13:e0201753. doi.org/10.1371/journal.pone.0201753

D'Ambrosio DA^P, Huseth AS, and Kennedy GG. 2018. Temporal efficacy of neonicotinoid seed treatments against *Frankliniella fusca* on cotton. *Pest Management Science*, 74:2110-2115. doi.org/10.1002/ps.4907

Karp D, Chaplin-Kramer R, Meehan T, [and 152 others, including Huseth AS]. 2018. Crop pests and predators exhibit inconsistent responses to surrounding landscape composition. *Proceedings of the National Academy of Sciences*, 115:E7863-E7870. doi.org/10.1073/pnas.1800042115

Reisig DD, Huseth AS, Bacheler JS, Aghaee MA, Braswell L, Burrack HJ, Flanders K, Greene JK, Herbert DA, Jacobson A, Paula-Moraes SV, Roberts P, and Taylor SV. 2018. Long-term empirical and observational evidence of practical *Helicoverpa zea* resistance to cotton with pyramided Bt toxins. *Journal of Economic Entomology*, 111:1824-1833. doi.org/10.1093/jee/toy106

Clements J, Schoville S, Clements A, Amezian D, Davis T, Sanchez-Sedillo B, Bradfield C, Huseth AS, and Groves RL. 2018. Agricultural fungicides inadvertently influence the fitness of Colorado potato beetles, *Leptinotarsa decemlineata*, and their susceptibility to insecticides. *Scientific Reports*, 8:13282. doi.org/10.1038/s41598-018-31663-4

D'Ambrosio DA, Huseth AS, and Kennedy GG. 2018. Evaluation of alternative mode of action insecticides in managing neonicotinoid-resistant *Frankliniella fusca* on cotton. *Crop Protection*, 113:56-63. doi.org/10.1016/j.cropro.2018.07.011

D'Ambrosio DA, Huseth AS, and Kennedy GG. 2018. Determining *Frankliniella fusca* (Thysanoptera: Thripidae) egg distribution in neonicotinoid seed-treated cotton. *Journal of Economic Entomology*, 112:827-834. doi.org/10.1093/jee/toy393

2017

Huseth AS^C, D'Ambrosio DA, and Kennedy GG. 2017. Responses of neonicotinoid resistant and susceptible *Frankliniella fusca* life stages to multiple insecticide groups in cotton. *Pest Management Science*, 73:2118-2130. doi.org/10.1002/ps.4590

Clements J, Schoville S, Peterson N, Huseth AS, Lan Q, and Groves RL. 2017. RNA interference of three up-regulated transcripts associated with insecticide resistance in an imidacloprid resistant population of *Leptinotarsa decemlineata*. *Pesticide Biochemistry and Physiology*, 135:35-40. dx.doi.org/10.1016/j.pestbp.2016.07.001

2011-2016

Huseth AS^C, Chappell TM, Langdon K, Morsello SC, Martin S, Greene JK, Herbert A, Jacobson AL, Reay-Jones FPF, Reed T, Reisig DD, Roberts PM, Smith R and Kennedy GG. 2016. *Frankliniella fusca* resistance to neonicotinoid insecticides: an emerging challenge for cotton pest management in the eastern United States. *Pest Management Science*, 72:1934-1945. doi.org/10.1002/ps.4232

- Nault BA, and Huseth AS. 2016. Evaluating an action threshold-based insecticide program on onion cultivars varying in resistance to onion thrips (Thysanoptera: Thripidae). *Journal of Economic Entomology*, 109:1772-1778. doi.org/10.1093/jee/tow112
- Schmidt-Jeffris RA, Huseth AS, and Nault BA. 2016. Estimating E-Race European corn borer (Lepidoptera: Crambidae) adult activity in snap bean fields based on corn planting intensity and their activity in corn in New York agroecosystems. *Journal of Economic Entomology*, 109:2210-2214. dx.doi.org/10.1093/jee/tow149
- Huseth AS^C, Petersen JD, Poveda K, Szendrei Z, Nault BA, Kennedy GG, and Groves RL. 2015. Spatial and temporal potato intensification drives insecticide resistance in the specialist herbivore, *Leptinotarsa decemlineata*. *PLoS ONE*, 10:e0127576. doi.org/10.1371/journal.pone.0127576
- Huseth AS^C, Groves RL, Chapman SA, and Nault BA. 2015. Evaluation of diamide insecticides co-applied with other agrochemicals at various times to manage *Ostrinia nubilalis* in processing snap bean. *Pest Management Science*, 71:1649-1656. doi.org/10.1002/ps.3973
- Huseth AS^C, Groves RL, Chapman SA, Alyokhin A, Kuhar TP, MacRae IV, Szendrei Z and Nault BA. 2014. Managing Colorado potato beetle insecticide resistance: new tools and strategies for the next decade of pest control in potato. *Journal of Integrated Pest Management*, 5:A1-A8. doi.org/10.1603/IPM14009
- Petersen JD, Huseth AS, and Nault BA. 2014. Evaluating pollination deficits in pumpkin production in New York. *Environmental Entomology*, 43:1247-1253. <http://dx.doi.org/10.1603/EN14085>
- Huseth AS^C, and Groves RL. 2014. Environmental fate of soil applied neonicotinoid insecticides in an irrigated potato agroecosystem. *PLoS ONE*, 9:e97081. doi.org/10.1371/journal.pone.0097081
- Huseth AS^C, Lindholm J, Groves CL, and Groves RL. 2014. Variable concentration of soil-applied insecticides in potato over time: implications for management of *Leptinotarsa decemlineata*. *Pest Management Science*, 70(12): 1863-1871. doi.org/10.1002/ps.3740
- Huseth AS^C, and Groves RL. 2013. Effect of insecticide management history on emergence phenology and neonicotinoid resistance in *Leptinotarsa decemlineata* (Coleoptera: Chrysomelidae). *Journal of Economic Entomology*, 106:2491-2505. doi.org/10.1603/EC13277
- Huseth AS, Frost KE, Knuteson DL, Wyman JA, and Groves RL. 2012. Effects of landscape composition and rotation distance on Colorado potato beetle (Coleoptera: *Leptinotarsa decemlineata*) abundance in cultivated potato. *Environmental Entomology*, 41:1553-1564. doi.org/10.1603/EN12128
- Lowenstien DM, Huseth AS, and Groves RL. 2011. Response of wild bees (Hymenoptera: Apoidea: Anthophila) to surrounding land cover in Wisconsin pickling cucumber. *Environmental Entomology*. 41:532-540. doi.org/10.1603/EN11241

Editor-Reviewed Extension Publications

- D'Ambrosio DA^P, Pellegrino AM^G, Perez SB^T, Goethe JK^G, Lafferty AT^T, and Huseth AS^C. Evaluation of soil-applied insecticides for control of the wireworm complex in sweet potato, 2019. *Arthropod Management Tests*. In press.
- Lafferty A^T, D'Ambrosio DA^P, and Huseth AS^C. 2018 Wireworm management in North Carolina sweet potato. *Arthropod Management Tests* 44(1). doi.org/10.1093/amt/tsz019
- Nault BA, Huseth AS and Smith ES. 2014. Onion thrips control in onion, 2013. *Arthropod Management Tests*. 39(1). doi.org/10.4182/amt.2014.E39

- Groves RL, Chapman SA, Huseth AS, Crubaugh LK and Frost KE. 2014. Registered and experimental foliar insecticides to control Colorado potato beetle and potato leafhopper in potato, 2013. *Arthropod Management Tests* 39(1). doi.org/10.4182/amt.2014.E10
- Groves RL, Chapman SA, Huseth AS, Crubaugh LK and Frost KE. 2014. Full season insecticide management programs for the control of Colorado potato beetle in Wisconsin potato, 2013. *Arthropod Management Tests* 39(1). doi.org/10.4182/amt.2014.E12
- Groves RL, Chapman SA, Huseth AS, Crubaugh LK and Frost KE. 2014. Evaluation of systemic insecticides for the control of Colorado potato beetle, potato leafhopper, and aphids in potato, 2013. *Arthropod Management Tests*. 39(1). doi.org/10.4182/amt.2014.E11
- Groves RL, Chapman SA, Frost KE, Huseth AS and Groves CL. 2013. Use of systemic insecticides to control Colorado potato beetle and potato leafhopper, 2012. *Arthropod Management Tests*. 38(1). doi.org/10.4182/amt.2013.E52
- Groves RL, Chapman SA, Frost KE, Huseth AS and Groves CL. 2013. Registered and experimental foliar insecticides to control Colorado potato beetle and potato leafhopper in potato, 2012. *Arthropod Management Tests*. 38(1). doi.org/10.4182/amt.2013.E50
- Groves RL, Chapman SA, Frost KE, Huseth AS and Groves CL. 2013. Full season management of Colorado potato beetle and potato leafhopper in potato, 2012. *Arthropod Management Tests*. 38(1). doi.org/10.4182/amt.2013.E51
- Groves RL, Chapman SA, Frost KE, Huseth AS and Groves CL. 2013. Evaluation of foliar insecticides for the control of onion thrips in dry-bulb onion, 2012. *Arthropod Management Tests*. 38(1). doi.org/10.4182/amt.2013.E35
- Groves RL, Chapman SA, Huseth AS and Groves CL. 2012. Evaluation of in-furrow treatments for European corn borer in snap bean, 2011. *Arthropod Management Tests*. 38(1). doi.org/10.4182/amt.2013.E1
- Groves RL, Chapman SA, Frost KE, Huseth AS and Groves CL. 2013. Evaluation of foliar insecticides for the control of onion thrips in dry bulb onion, 2011. *Arthropod Management Tests*. 38(1). doi.org/10.4182/amt.2013.E35
- Groves RL, Chapman SA, Lowenstien DM, Huseth AS and Groves CL. 2012. Evaluation of in-furrow treatments for European corn borer in snap bean, 2011. *Arthropod Management Tests*. 37(1). doi.org/10.4182/amt.2012.E1
- Groves RL, Chapman SA, Lowenstien DM, Huseth AS and Groves CL. 2012. Full season management of Colorado potato beetle and potato leafhopper in potato, 2011. *Arthropod Management Tests*. 37(1). doi.org/10.4182/amt.2012.E48
- Groves RL, Chapman SA, Lowenstien DM, Huseth AS and Groves CL. 2012. Use of systemic insecticides to control Colorado potato beetle and potato leafhopper, 2011. *Arthropod Management Tests*. 37(1). doi.org/10.4182/amt.2012.E49
- Groves RL, Chapman SA, Lowenstien DM, Huseth AS and Groves CL. 2012. Registered and experimental foliar insecticides to control Colorado potato beetle and potato leafhopper in potato, 2011. *Arthropod Management Tests*. 37(1). doi.org/10.4182/amt.2012.E47
- Groves RL, Chapman SA, Lowenstien DM, Huseth AS and Groves CL. 2012. Evaluation of foliar insecticides for the control of onion thrips in dry-bulb onion, 2011. *Arthropod Management Tests*. 37(1). doi.org/10.4182/amt.2012.E34

Other Academic Writing

ESA Position Statement on Insecticide Resistance Management. 2016. Entomology Society of America. <http://www.entsoc.org/press-releases/esa-position-statements-managing-insect-resistance-pesticides-and-gmos>

Vann R, Everman W, Holshouser D, Huseth A, Reisig D, Thiessen L. 2020. Soybean Producers Guide to Preparing for and Recovering from Hurricanes in North Carolina and Virginia. USDA Southeastern Climate Hub. *In Press*. Available at: https://www.climatehubs.usda.gov/sites/default/files/Soybean%20Guidance_draft.pdf

Non-refereed writing

Huseth AS and Nault BA. 2014. Managing Colorado potato beetle neonicotinoid resistance: new tools and strategies for the next decade of pest control in potato. *In Proceedings of the Empire State Producers Expo, New York State Vegetable Growers Association, January 21-23, Syracuse, NY.*

Huseth AS and Groves RL. 2012. Environmental fate of neonicotinoids. *In Proceedings of Wisconsin's Annual Potato Meeting, UW-Madison College of Agriculture and Life Sciences, Research Division and UWEX, January 31-February 2, Stevens Point, WI, 25:191-193.*

Groves RL, Chapman SA and Huseth AS. 2012. Registered and experimental foliar insecticides to control Colorado potato beetle and potato leafhopper in potato. *In Proceedings of Wisconsin's Annual Potato Meeting, UW-Madison College of Agriculture and Life Sciences, Research Division and UWEX, January 31-February 2, Stevens Point, WI, 25:191-193.*

Groves RL, Chapman SA and Huseth AS. 2012. Foliar insecticide treatments for the control of potato leafhopper in Wisconsin potato production. *In Proceedings of Wisconsin's Annual Potato Meeting, UW-Madison College of Agriculture and Life Sciences, Research Division and UWEX, January 31-February 2, Stevens Point, WI, 25:195-196.*

Groves, RL Chapman SA and Huseth AS. 2012. Foliar insecticide treatments to limit the spread of Potato Virus Y in Wisconsin seed potato production. *In Proceedings of Wisconsin's Annual Potato Meeting, UW-Madison College of Agriculture and Life Sciences, Research Division and UWEX, January 31-February 2, Stevens Point, WI, 25:197-198.*

Groves RL, Chapman SA and Huseth AS. 2012. Evaluation of insecticides for the control of the Colorado potato beetle, potato leafhopper, and aphids in potato. *In Proceedings of Wisconsin's Annual Potato Meeting, UW-Madison College of Agriculture and Life Sciences, Research Division and UWEX, January 31-February 2, Stevens Point, WI, 25:199-201.*

Groves RL, Chapman SA and Huseth AS. 2012. Large plot demonstration experiments for control of Colorado potato beetle in Wisconsin potatoes. *In Proceedings of Wisconsin's Annual Potato Meeting, UW-Madison College of Agriculture and Life Sciences, Research Division and UWEX, January 31-February 2, Stevens Point, WI, 25:203-206.*

Huseth AS and Groves RL. 2011. Colorado potato beetle insecticide resistance in Wisconsin: characterizing diapause physiology and behavior associated with neonicotinoid resistance. *In Proceedings of the Wisconsin Potato and Vegetable Growers Association, Grower Education Conference. February 1-3, Stevens Point, Wisconsin. 24:149-152.*

Huseth AS and Groves RL. 2010. Overwintering biology and extended diapause in Colorado potato beetle. *In Proceedings of the Wisconsin Potato and Vegetable Growers Association, Grower Education Conference. February 3-4, Stevens Point, WI. 23:89-92.*

Huseth AS and Groves RL. 2009. Overwintering Habitats of the Colorado potato beetle in Wisconsin's Central Sands Production Area. *In Proceedings of the Wisconsin Potato and Vegetable Growers Association, Grower Education Conference. February 3-4, Stevens Point, WI. 22:31-36.*

Huseth AS and Groves RL. 2008. Overwintering Habitats of the Colorado potato beetle in Wisconsin's Central Sands Production Area. *In* Proceedings of the Wisconsin Potato and Vegetable Growers Association, Grower Education Conference. February 5-7, Stevens Point, WI. 21:29-32

Scientific Presentations

Connections to my program have been designated as superscripts in author lines: as Corresponding Graduate Student^G, Postdoc^P, Technician^T, Undergraduate^U.

Invited Presentations and Symposia

Huseth AS, Hopperstad KA^P, Reich B. 2020. Monitoring and management of *Helicoverpa zea* in complex agroecosystems. Symposia: Advances and Obstacles to Sustainable Pest Management in Vegetables. Joint Eastern & Southeastern Branch Entomology Society of America Meeting, March 31 - April 1, Atlanta, Georgia. (Cancelled due to COVID-19)

Williams L, Huseth A, Serrano J, Millar JG, Van Herk W. 2020. Seasonal activity of *Melanotus communis* (Coleoptera: Elateridae) in the Carolinas. Symposia: Improving Control of a Challenging Pest Group: Biology and Management of Elateridae in Diverse Agroecosystems. Joint Eastern & Southeastern Branch Entomology Society of America Meeting, March 31 - April 1, Atlanta, Georgia. (Cancelled due to COVID-19)

Huseth AS. 2020. Rethinking refuge for polyphagous pests: linking cross-crop deployment of insecticidal toxins to resistance selection in row crop agroecosystems. 2020 Bayer Insect Management Academic Summit. March 10-13, St. Louis, Missouri (Cancelled due to COVID-19).

Huseth AS and Kennedy GG. 2019. Assays to identify stage-specific activity of insecticides on laboratory reared thrips. Member Symposium: Latest Advancements and Challenges in Insect Rearing and Testing. Entomology Society of America National Meeting. November 17-20. St. Louis, MO.

Huseth AS. 2019. Insecticide resistance implications of widespread neonicotinoid use in field crops. 27th Annual International Working Group on *Ostrinia* and other maize pests. October 14. Engelberg, Switzerland.

Huseth AS. 2019. Understanding the value of a habitat patch: management of resistance evolution in unstable selection landscapes. Department of Agricultural Zoology Seminar Series, Faculty of Agriculture, University of Zagreb, March 5, 2019, Zagreb, Croatia.

Huseth AS. 2019. Impacts of area-wide technology deployment within an intensive vegetable production agroecosystem. Department of Agricultural Zoology Seminar Series, Faculty of Agriculture, University of Zagreb, March 7, 2019, Zagreb, Croatia.

Huseth AS. Arthropod Resistance Database: improving data accessibility and visualization to improve IRM adoption. Open Forum: Pest Management and Agricultural Informatics, NC Biotechnology Center, January 16, 2019. Durham, NC.

Huseth AS. Pests beyond the field edge: linking thresholds to spatiotemporal processes to increase IPM impact in contemporary agriculture. Big Idea Forum-Thresholds and IPM, NC Biotechnology Center, Durham, NC. January 16, 2019.

- Huseth AS, Naranjo S, and Ellsworth P. 2019. Understanding potential biological control impacts of MON 88702 in Arizona cotton systems. Bayer Academic Summit, 2019 Beltwide Cotton Conferences, January 10, New Orleans, LA.
- Huseth AS, D'Ambrosio, and Kennedy GG. 2019. Laboratory assessment of MON 88702 activity against tobacco thrips and western flower thrips. Bayer Academic Summit, 2019 Beltwide Cotton Conferences, January 10, New Orleans, LA.
- Huseth AS. 2018. Building innovative resistance management plans for challenging agricultural pests. Hermiston Farm Fair, Oregon State University, November 30, 2018, Hermiston, OR.
- Huseth AS. 2017. Managing Colorado potato beetle (*Leptinotarsa decemlineata*, Say) in complex agroecosystems: documenting insecticide resistance in improving the potato beetle IRM toolbox. Horticulture Seminar Series, Department of Horticulture, Oregon State University, January 25, 2017, Aurora, OR.
- Huseth AS. 2016. Implications of neonicotinoid use in row crops: linking cross-commodity seed treatment use to insecticide resistance. Entomology Seminar Series, Department of Entomology, Virginia Tech University, April 8, 2016, Blacksburg, VA.
- Groves RL, Frost KE and Huseth AS. 2015. Modeling Potato Virus Y incidence in seed potato production using grower-driven data and landscape analyses. Enhancing risk index-driven decision tools for managing insect transmitted plant pathogens. Tenth International Symposium on Thysanoptera and Tospoviruses. May 14-20, Pacific Grove, CA.
- Kennedy GG and Huseth AS. 2016. Agricultural intensification, crop protection technology, and the challenge of resistance management. Symposium: Entomological Issues Beyond Borders: Challenges and Opportunities for Sustainable Solutions. XXV International Congress of Entomology Meeting, September 25-30, Orlando, FL.
- Huseth AS, Chappell TM and Kennedy GG. 2015. Implications of neonicotinoid use in row crops: linking cross-commodity seed treatment use to insecticide resistance. Symposium: The gamut of resistance management for soybean insect pests: issues and prospects. Southeastern Branch-Entomology Society of America Annual Meeting, March 13-16, Raleigh, NC.
- Huseth AS, Groves RL, Frost KE and Charkowski AO. 2016. Grower-driven data reveals first principles in the management of Potato Virus Y incidence in seed potato production. Symposium: Insect-transmitted Phytoviruses and Agricultural Pandemics: Current Scenarios and Sustainable Management. XXV International Congress of Entomology Meeting, September 25-30, Orlando, FL.
- Huseth AS. 2014. Indirect costs of agricultural intensification on pest management and groundwater quality. Biology Seminar Series, Department of Biology, Hobart and William Smith Colleges, March 29, 2014, Geneva, NY.
- Huseth AS. 2014. Balancing farmland productivity and environmental conservation: indirect costs of agricultural intensification on groundwater quality. Jugatae Seminar Series, Department of Entomology, Cornell University, February 19, 2014, Geneva, NY.
- Huseth AS, Petersen JD, Poveda K, Szendrei Z, Nault BA, Kennedy GG and Groves RL. 2014. Insecticide resistance in a specialist herbivore shows a hidden cost of agricultural intensification. Program Symposium: Agricultural Intensification and Insect Communities: Production Tradeoff

Challenges with 9 Billion on the Horizon. Entomology Society of America National Meeting, November 16-19, Portland, OR.

Huseth AS and Groves RL. 2014. Environmental fate of soil applied neonicotinoid insecticides in an irrigated potato agroecosystem. Program Symposium: Research updates on neonicotinoids. International Working Group on *Ostrinia* and other maize pests. April 13-17, Chicago, IL.

Groves RL and Huseth AS. 2013. Landscape management of challenging pests? Ideas for the future. Program Symposium: IRM - The road to resistance is paved with good intentions. North Central Branch - Entomology Society of America Meeting, June 16-19, Grand Rapids, SD.

Groves, RL and Huseth AS. 2013. Refining vegetable IPM - Limiting insecticide resistance and leaching. Revolutionizing IPM: Novel pest control strategies for a changing world. North Central Branch - Entomology Society of America Meeting, June 16-19, Grand Rapids, SD.

Submitted Presentations

Pellegrino A^G, Williams L, Millar J, and Huseth A. 2020. Monitoring *Melanotus communis* (Coleoptera: Elateridae) activity in North Carolina using pheromone-baited pitfall traps. Joint Eastern & Southeastern Branch Entomology Society of America Meeting, March 31 - April 1, Atlanta, Georgia. (Cancelled due to COVID-19)

Komar T^G, and Huseth AS. 2020. Effect of a novel *Bt*-toxin on the beneficial insect complex in cotton. Joint Eastern & Southeastern Branch Entomology Society of America Meeting, March 31 - April 1, Atlanta, Georgia. (Cancelled due to COVID-19)

Goethe J^G, and Huseth AS. 2020. Pest and beneficial insect communities in North Carolina small grains. 2020 Joint Eastern Branch & Southeastern Branch Meeting, Entomology Society of America, Atlanta, Georgia, March 31 - April 1. (Cancelled due to COVID-19)

Stahr M, Huseth AS, Bertone M, Quesada-Ocampo L. 2020. Defining dispersal mechanisms in storage for *Ceratocystis fimbriata*, causal agent of black rot. 2020 American Phytopathological Society Southern Division Meeting. February 9-12. Charleston, South Carolina

Stahr M, Huseth AS, Bertone M, Quesada-Ocampo L. 2020. Identifying insect vectors of *Ceratocystis fimbriata*, causal agent of black rot, within North Carolina sweetpotato storage and packing systems. National Sweetpotato Collaborators Group. January 24-25. Nashville, TN.

Dorman S, Schürerch R, Huseth AS, and Taylor S. 2019. Effects of landscape composition and climatic factors on tarnished plant bug (*Lygus lineolaris*) abundance in Mid-Atlantic cotton. Eastern Branch Entomology Society of America Meeting, March 9-12, Blacksburg, Virginia.

Hopperstad KA^P, Arends BR, Reisig DD, Kennedy GG, Collins G, Reay-Jones FPF, Greene JK, and Huseth AS. 2019. Landscape-level drivers of *Bt* resistance for *Helicoverpa zea* (Lepidoptera: Noctuidae) in corn-cotton agroecosystems. Entomology Society of America National Meeting. November 17-20. St. Louis, MO.

Angeles-Lopez, YI, Huseth AS, and Rotenberg D. 2019. Effect of barley yellow dwarf virus on dispersion of aphids among maize plants. Entomology Society of America National Meeting. November 17-20. St. Louis, MO.

- Arends BR, Gundry SC, Hopperstad KA^P, Reay-Jones FPF, Greene JK, Huseth AS, Kennedy GG, and Reisig DD. 2019. *Helicoverpa zea* incidence and susceptibility to *Bt* corn across North Carolina and South Carolina in relation to agroecosystem composition. Entomology Society of America National Meeting, November 17-20. St. Louis, MO.
- Dorman S, Schürch R, Huseth AS, and Taylor S. 2019. Effects of landscape composition and climatic factors on tarnished plant bug (*Lygus lineolaris*) abundance in Mid-Atlantic cotton. Eastern Branch Entomology Society of America Meeting, March 9-12, Blacksburg, VA.
- Collins GD, Reisig D, Huseth AS, Edmisten KL, Szilvay BL. 2019. Influence of bollworm management on variety selection in NC. 2019 Beltwide Cotton Conferences, January 7-10, New Orleans, LA.
- Dorman S, Schürch R, Huseth AS, and Taylor S. 2018. Influence of landscape and environmental factors on the spatial and temporal abundance of *Lygus lineolaris* populations in Virginia cotton. Entomology Society of America Meeting, November 11-14, Vancouver, British Columbia.
- Huseth AS, Chappell TM, Chitturi A, Jacobson AL and Kennedy GG. 2017. Landscapes of resistance: describing cotton production factors driving tobacco thrips neonicotinoid resistance in the eastern Cotton Belt. National Cotton Council Beltwide Cotton Conferences, January 4-6, 2017, Dallas, TX.
- Kennedy GG, Huseth AS, and Chappell TM. 2017. Solutions for the future of thrips IPM: a predictive model to inform cotton planting and timing foliar sprays. National Cotton Council Beltwide Cotton Conferences, January 4-6, 2017, Dallas, TX.
- D'Ambrosio DA, Huseth AS, and Kennedy GG. 2017. Improved understanding of seed treatment performance through knowledge of local levels of neonicotinoid resistance. National Cotton Council Beltwide Cotton Conferences, January 4-6, 2017, Dallas, TX.
- Huseth AS, Chappell TM, Chitturi A, Jacobson AL and Kennedy GG. 2016. Characterizing spatial distribution and host crop association of neonicotinoid resistant *Frankliniella fusca* (Thysanoptera: Thripidae) in the Southeastern United States. XXV International Congress of Entomology Meeting, September 25-30, Orlando, FL.
- D'Ambrosio DA, Huseth AS, Chappell TM, Oza D, Prestemon A and Kennedy GG. 2016. Feeding and oviposition by neonicotinoid-resistant and susceptible *Frankliniella fusca* (Thysanoptera: Thripidae) on cotton seedlings grown from neonicotinoid treated seed. XXV International Congress of Entomology Meeting, September 25-30, Orlando, FL.
- Huseth AS, Chappell TM, and Kennedy GG. 2016. Current status of tobacco thrips (*Frankliniella fusca*, Hinds) neonicotinoid resistance in the eastern US. National Cotton Council Beltwide Cotton Conferences, January 4-6, 2016, New Orleans, LA.
- Kennedy GG, Huseth AS, and Chappell TM. 2016. Neonicotinoid resistance in tobacco thrips: what can we learn from this problem? National Cotton Council Beltwide Cotton Conferences, January 4-6, 2016, New Orleans, LA.
- Huseth AS, Chappell TM, and Kennedy GG. 2015. Characterizing spatial distribution and host crop association of neonicotinoid resistant *Frankliniella fusca* (Thysanoptera: Thripidae). Entomology Society of America National Meeting, November 15-18, Minneapolis, MN.

- Schmidt-Jeffris R, Huseth AS, and Nault BA. 2015. Effects of prior landscape use on European corn borer populations in processing vegetables. Entomology Society of America National Meeting, November 15-18, Minneapolis, MN.
- Huseth AS, Frost KE, and Groves RL. 2012. Effects of local landscape composition on Colorado potato beetle (*Leptinotarsa decemlineata*) colonization of commercial potato in Wisconsin. Entomology Society of America National Meeting, November 11-14, Knoxville, TN.
- Huseth AS and Groves RL. 2012. Colorado potato beetle (*Leptinotarsa decemlineata*) Diapause phenology and neonicotinoid resistance in Wisconsin. North Central Branch - Entomology Society of America Meeting, June 3-6, Lincoln, NE.
- Huseth AS and Groves RL. 2010. Protracted emergence of the Colorado potato beetle (*Leptinotarsa decemlineata*) and the relationship to neonicotinoid resistance. Entomology Society of America National Meeting, December 12-15, San Diego, CA.
- Huseth AS and Groves RL. 2009. Spatial colonization patterns of Colorado potato beetle in potato: relating land use patterns and population dynamics. Entomology Society of America National Meeting, December 13-16, Indianapolis, IN.
- Huseth AS and Groves RL. 2009. Overwintering habitats of the Colorado potato (*Leptinotarsa decemlineata*) beetle in Wisconsin's Central Sands production area. Wisconsin Ecology Student Symposium, April 17, Madison, WI.
- Huseth AS and Groves RL. 2009. Overwintering habitats of the Colorado potato (*Leptinotarsa decemlineata*) beetle in Wisconsin's Central Sands production area. North Central Branch - Entomology Society of America Meeting, March 15-17, St. Louis, MO.
- Groves RL, Duerr E, Charkowski A, Crockford A and Huseth AS. 2014. Influence of regional landscapes on potato virus Y incidence in seed potato. Section Symposium: Effects of cropping systems landscapes on ecology and management of insect vectors and transmitted pathogens. Entomology Society of America National Meeting, November 16-19, Portland, OR.
- Groves RL, Frost KE and Huseth AS. 2014. Integrating grower-driven and publically held data for improved plant protection. Special Session: Whats App? Using Apps and Technology in Integrated Plant Disease Management Programming. August 9-13, Minneapolis, MN.
- Huseth AS. 2013. Effects of local landscape composition on Colorado potato beetle, *Leptinotarsa decemlineata* (Say): implications for IRM in Wisconsin. Department of Entomology Seminar Series, University of Wisconsin-Madison, April 5, Madison, WI.
- Huseth AS, Frost KE, Charkowski AO, Gray S, Crockford A and Groves RL. 2013. Managing Potato Virus Y predicting aphid flights. Wisconsin Seed Potato Improvement Association Conference. February 12, Antigo, Wisconsin.
- Huseth AS and Groves RL. 2013. Environmental fate of systemic neonicotinoids: a potato case study. Wisconsin Potato and Vegetable Growers Association, Grower Education Conference. February 5-7, Stevens Point, WI.
- Huseth AS and Groves RL. 2012. Environmental fate of neonicotinoids. Wisconsin Potato and Vegetable Growers Association, Grower Education Conference. January 31-February 2, Stevens Point, WI.

Groves RL and Huseth AS. 2012. Interaction of insecticide resistance and delayed emergence in Colorado potato beetle - new challenges for and old pest. Program Symposium: Do crises drive innovation? Insect resistance management: proactive or reactive? Entomology Society of America National Meeting, November 11-14, Knoxville, TN.

Huseth AS and Groves RL. 2011. Colorado potato beetle diapause phenology and neonicotinoid resistance. Program Symposium: Potato entomology in the NCB: recent work and future directions. North Central Branch - Entomology Society of America Meeting, March 13-16, Minneapolis, MN.

Huseth AS and Groves RL. 2011. Detecting land use change with publically available geographic data. Ground Water Task Force, Wisconsin Potato and Vegetable Association. December 14, Plover, WI.

Huseth AS and Groves RL. 2010. Re-registration Eligibility Decision (RED) for metam-sodium: analysis of proposed bystander risks with GIS for Central Wisconsin. Joint Wisconsin and Michigan EPA Field Tour: Fumigation Focus Group, July 20, Hancock, WI.

Huseth AS, McGuidwin A, Bussan AJ and Groves RL. 2008. EPA's Re-Registration Eligibility Decision (RED) for metam-sodium, metam-potassium, and methyl-isothiocyanate. Wisconsin DATCP Fumigation Focus Group, Wisconsin Department of Agriculture, Trade and Consumer Protection, October 28, Madison, WI.

Huseth AS and Groves RL. 2008. Re-registration Eligibility Decision (RED) for metam-sodium: analysis of proposed bystander risks with GIS for Central Wisconsin. Wisconsin Potato and Vegetable Growers Association, September 23, Hancock, WI.

Poster Presentations

Stewart S, Steckel S, Williams M, Kerns D, Graham S, Perkins C, Catchot B, Catchot A, Musser F, Gore J, Lorenz G, Brown S, Kerns D, Kennedy G, Huseth A, Reisig D, and Taylor S. 2020. Performance of acephate against tobacco thrips and evidence of possible resistance. Joint Eastern & Southeastern Branch Entomology Society of America Meeting, March 31 - April 1, Atlanta, Georgia. (Cancelled due to COVID-19)

Stewart S, Steckel S, Williams M, Kerns D, Graham S, Perkins C, Catchot B, Catchot A, Musser F, Gore J, Lorenz G, Brown S, Kerns D, Kennedy G, Huseth A, Reisig D, and Taylor S. 2020. Performance of acephate against tobacco thrips and evidence of possible resistance. 2020 Cotton Beltwide Conference, January 8-10, Austin, Texas.

Prestemon A, Huseth AS, and Kennedy GG. 2016. Manipulating pest behavior: documenting tobacco thrips antixenosis to imidacloprid-treated cotton. State of North Carolina Undergraduate Research & Creativity Symposium, November 5, Durham, NC.

Jacobson AL, Labadie P, Huseth AS, and Kennedy GG. 2016. Population genetic structure of *Frankliniella fusca*. XXV International Congress of Entomology Meeting, September 25-30, Orlando FL.

Huseth AS, Frost KE and Groves RL. 2013. Effects of local landscape composition on Colorado potato beetle (*Leptinotarsa decemlineata*) colonization of commercial potato in Wisconsin. Wisconsin Potato and Vegetable Growers Association, Grower Education Conference. February 5-7, Stevens Point, WI.

Huseth AS and Groves RL. 2012. Colorado potato beetle (*Leptinotarsa decemlineata*) emergence phenology and the relationship to neonicotinoid resistance. Wisconsin Potato and Vegetable Growers Association, Grower Education Conference. January 31-February 2, Stevens Point, WI.

Huseth AS and Groves RL. 2011. Colorado potato beetle (*Leptinotarsa decemlineata*) emergence phenology and the relationship to neonicotinoid resistance. Insecticide Resistance Action Committee - Resistance 2011, September 5-7, Rothamsted, United Kingdom.

Huseth AS and Groves RL. 2008. Overwintering habitats of the Colorado potato (*Leptinotarsa decemlineata*) beetle in Wisconsin's Central Sands production area. Entomology Society of America National Meeting, November 16-19, Reno, NV.

Huseth AS and Hanes J. 2006. Cottonville Fire Ecology: Analyzing Effects of Fire Severity on Understory Regeneration in Adams County, Wisconsin. Letters and Sciences Symposium Poster Presentation, College of Natural Resources, University of Wisconsin-Stevens Point, Stevens Point, WI.

Extension Activities

Extension Agent Training

Huseth AS. Understanding the value of a patch: management of resistance evolution in unstable selection landscapes. Cotton Crash Course, Wilson, NC. February 9, 2020. (23 attendees).

Huseth AS. Back to basics: understanding Bt resistance and selection through a lens of bollworm ecology. Peanut and Cotton Agent Training, Wilson, NC. January 23, 2019. (25 attendees).

Huseth AS and Reisig DD. Activity of the new thrips and *Lygus* Bt trait against tobacco thrips. 2019 Cotton Agent Training, Wilson, NC. January 15, 2020. (24 attendees).

Huseth AS. Management of Neonicotinoid Resistant Thrips. Cotton Agent Crash Course, Wilson, NC. March 11, 2019. (20 attendees).

Huseth AS. Resistance Management 101: understanding evolving pest control issues in North Carolina cotton. Cotton Agent Crash Course, Wilson, NC. March 11, 2019. (20 attendees).

Huseth AS. Cotton Leafroll Dwarf Virus (US-CLRDV): an emerging crisis for NC cotton? Peanut and Cotton Agent Training Field Day, Rocky Mount, NC. June 27, 2019. (22 attendees).

Huseth AS. Identification of common insects found in field and specialty crops. Look Before You Leap: Pest Identification Training Session. NC Cooperative Extension State Conference, Raleigh, NC. October 30, 2019. (41 attendees).

Reisig DD and Huseth AS. Corn and Soybean Insect Management. Grains Agronomic Program Team Conference. December 4, 2019. (40 attendees).

Huseth AS. Insect Management in Sweet Potato - Now and in the Future. North Carolina Vegetable Growers Association Annual Meeting. December 6, 2019. (45 attendees).

Huseth AS. Resistance case study: neonicotinoids and thrips. Winter cotton & peanut agent training, Wilson County Extension Office, Wilson, NC. March 16, 2018. (25 attendees).

Huseth AS. Managing insects in cotton. Cotton Agent Training, Rocky Mount, NC. June, 21, 2018. (30 attendees).

Huseth AS. Building innovative management plans for challenging soybean pests. Soybean Extension Agent Training, Clayton, NC. August 14, 2018. (40 attendees).

Huseth AS and Nault BA. Colorado potato beetle resistance management – sunset of the neonicotinoids. Agriculture & Food Systems In-service, Cornell Cooperative Extension, Ithaca, NY. November 20, 2013. (31 attendees).

Extension Presentations at Stakeholder Meetings

Huseth AS. Cotton Insect Pest Management for 2020. Sampson/Duplin/Hartnett County Cotton Meeting, Warsaw, NC. February 3, 2020. (58 attendees).

Huseth AS. Cotton Insect Pest Management for 2020. Wayne County Cotton Meeting, Goldsboro, NC. February 6, 2020. (34 attendees).

Huseth AS and Batts T. Lorsban use now and into the future. North Carolina Sweetpotato Commission Annual Meeting, Goldsboro, NC. January 16, 2020. (250 attendees).

Huseth AS and Reisig DD. Management of soybean and corn pests for 2020. Pitt County Grain Meeting, Greenville, NC. January 23, 2020. (45 attendees).

Huseth AS. Cotton Insect Pest Management for 2020. Northampton County Cotton Meeting, Jackson, NC. January 31, 2020. (63 attendees).

Huseth AS. Cotton Insect Pest Management for 2020. Halifax County Cotton Meeting, Scotland Neck, NC. January 31, 2020. (72 attendees).

Huseth AS. Cotton Insect Pest Management for 2020. Chowan/Gates/Perquimans County Cotton Meeting, Edenton, NC. February 5, 2020. (102 attendees).

Huseth AS. Cotton Insect Pest Management for 2020. Martin County Cotton Meeting, Williamston, NC. February 5, 2020. (94 attendees).

Huseth AS. Cotton Insect Pest Management for 2020. Jones County Cotton Meeting, Trenton, NC. February 5, 2020. (36 attendees).

Huseth AS. Cotton Insect Pest Management for 2020. Bertie County Cotton Meeting, Windsor, NC. February 10, 2020. (68 attendees).

Huseth AS. Cotton Insect Pest Management for 2020. Piedmont Region Cotton Meeting, Albemarle, NC. February 10, 2020. (45 attendees).

Huseth AS. Cotton Insect Pest Management for 2020. Scotland/Hoke/Robeson County Cotton Meeting, Red Springs, NC. February 10, 2020. (67 attendees).

Huseth AS. Cotton Insect Pest Management for 2020. Edgecombe County Cotton Meeting, Rocky Mount, NC. 02-11-2020. (86 attendees).

Huseth AS. Cotton Insect Pest Management for 2020. Hertford County Cotton Meeting, Winton, NC. February 11, 2020. (21 attendees).

Huseth AS. Grain Insect Pest Management for 2020. Cleveland County Grain Meeting, Shelby, NC. February 17, 2020. (72 attendees).

Huseth AS. Grain Insect Pest Management for 2020. Beaufort County Grain Meeting, Aurora, NC. February 18, 2020. (22 attendees).

Huseth AS. Soybean Pest Management for 2020. Johnston County Grain Meeting, Smithfield, NC. February 18, 2020. (105 attendees).

Huseth AS. Lorsban use now and into the future. North Carolina Extension Sweetpotato Grower Meeting, Smithfield, NC. February 20, 2020. (135 attendees).

Huseth AS. Cotton Insect Update - 2019. Scotland/Hoke/Robeson County Cotton Meeting, Red Springs, NC. January 30, 2019. (90 attendees).

Huseth AS. Management of Soil Insect Pests in Organic Sweet Potatoes. Organic Commodities and Livestock Conference, Raleigh, NC. February 7, 2019. (40 attendees).

Huseth AS. Northeast Cotton Insect Update - 2019. Chowan/Gates/Perquimans County Cotton Meeting, February 13, 2019. (85 attendees).

Huseth AS. Northampton County Thrips Management Update - 2019. Northampton County Extension Office, Jackson, NC. February 15, 2019. (72 attendees).

Huseth AS. Halifax County Thrips Management Update - 2019. Halifax County Extension Office, Halifax, NC. February 15, 2019. (87 attendees).

Huseth AS. 2019 Lorsban and Bifenthrin Update. Regional Sweetpotato Meeting, Wilson County Extension Office, Wilson, NC. February 21, 2019. (120 attendees).

Huseth AS. Sugarcane aphid sorghum research. Organic Commodities Field Day, Kinston, NC. July 22, 2019. (109 attendees).

Huseth AS. 2019 field crops insect management. Warren Hardy Farms Turn-row Meeting, Kinston, NC. July 30, 2019. (32 attendees).

Huseth AS. Management of tarnished plant bugs in cotton. 2019 NC State Cotton Field Day, Rocky Mount, NC. September 19, 2019. (225 attendees).

Huseth AS. Insect management in Sweet Potato. North Carolina Certified Crop Advisor Training. December 11, 2019. (55 attendees).

Huseth AS. Potato pest management. 2019 Area Potato Production Meeting, Camden, NC. December 17, 2019. (26 attendees).

Huseth AS. 2018 corn insect update. Moore County Extension Grain Meeting, Carthage, NC. July 16, 2018. (6 attendees).

Huseth AS. Cotton insect update – 2018. Northampton County Extension Office, Jackson, NC. February 26, 2018. (50 attendees).

Huseth AS. Cotton insect update – 2018. Halifax County Extension Office, Halifax, NC. February 26, 2018. (65 attendees).

Huseth AS. 2018 Sweetpotato insect control. Regional Sweetpotato Meeting, Wilson County Extension Office, Wilson, NC. February 27, 2018. (150 attendees).

Huseth AS. Managing wireworms in organic sweetpotato. Organic Commodities Field Day, Bailey, NC. July 23, 2018. (140 attendees).

Huseth AS. Corn insect management & Bt resistance. Warren Hardy Farms Turnrow Meeting, Kinston, NC. July 28, 2018. (25 attendees).

Huseth AS. Emerging insect issues in soybean. NCSU Greene County soybean turnrow meeting, Maury, NC. August 27, 2018. (22 attendees).

Huseth AS. 2018 insect pest issues in soybean. NCSU Lenoir County soybean turnrow meeting, Grifton, NC. August 27, 2018. (19 attendees).

Huseth AS. Managing insecticide resistance development in potato. 2018 Area Potato Production Meeting, Camden, NC. December 7, 2018. (22 attendees).

Huseth AS. IPM strategies for challenging potato pests in North Carolina: addressing wireworm issues. 2017 Area Potato Production Meeting, Camden, NC. December 14, 2017. (30 attendees).

Huseth AS, Chappell TM, and Kennedy GG. Tobacco thrips neonicotinoid resistance update. 2016 Cotton Field Day. Rocky Mount, NC. September 15, 2016. (75 attendees).

Huseth AS and Nault BA. Update on management of Colorado potato beetle and other insect pests. Fresh Market Potato Varieties, Disease and Insect Management Field Day, Cornell Cooperative Extension, North Rose, NY. August 28, 2014. (60 attendees).

Huseth AS and Nault BA. European corn borer management - new tools for management. Snap and Lima bean Advisory Council, Cornell Cooperative Extension, Geneva, NY. December 12, 2013. (15 attendees).

Huseth AS and Nault BA. Cucurbit insect pest management – pests, tools, and future challenges. Squash School, Cornell Cooperative Extension, Rochester, NY. November 8, 2013. (19 attendees).

Huseth AS. The year of the insect – and looking ahead to 2013. 10th Annual Fresh Market Produce Workshop, University of Wisconsin Cooperative Extension, Ontario, Wisconsin. March 26, 2013. (29 attendees).

Huseth AS and Nault BA. Managing Colorado potato beetle neonicotinoid resistance: new tools and strategies for the next decade of pest control in potato. Empire State Producers Expo, New York State Vegetable Growers Association, Syracuse, New York. January 21, 2013. (35 attendees).

Huseth AS and Groves RL. Insect pest management in fresh market vegetable crops. Marinette County Fresh Market Vegetable Growers Workshop, University of Wisconsin Cooperative Extension, Coleman, Wisconsin. April 2, 2012. (12 attendees).

Huseth AS and Groves RL. 2011 vegetable insect pest problems and a look ahead to 2012. Marinette County Fresh Market Vegetable Growers Workshop, University of Wisconsin Cooperative Extension, Coleman, Wisconsin. April 2, 2012. (12 attendees).

Huseth AS and Groves RL. Colorado potato beetle (*Leptinotarsa decemlineata*) overwintering emergence patterns and the relationship to neonicotinoid resistance. Wisconsin Potato and Vegetable Growers Association, Grower Education Conference. Stevens Point, Wisconsin. February 1, 2012. (60 attendees).

Huseth AS and Groves RL. Overwintering habitats of the Colorado potato beetle in Wisconsin's Central Sands production area. Wisconsin Potato and Vegetable Growers Association Annual Potato Meeting Research Presentation, Stevens Point, Wisconsin. February 6, 2010. (35 attendees).

Huseth AS and Groves RL. Overwintering biology and extended diapause in Colorado potato beetle. Wisconsin Potato and Vegetable Growers Association, Grower Education Conference, Stevens Point, Wisconsin. February 3, 2010. (45 attendees).

Huseth AS and Groves RL. Novel seed treatment and in-furrow uses for cucurbit insect pests. Midwest Pickle Growers Association Annual Meeting, Green Bay, Wisconsin. January 6, 2010. (45 attendees).

Huseth AS and Groves RL. Overwintering habitats of the Colorado potato beetle in Wisconsin's Central Sands production area. Wisconsin Potato and Vegetable Growers Association, Grower Education Conference, Stevens Point, Wisconsin. February 3, 2009. (60 attendees).

Extension poster presentations

Goethe J^G, D'Ambrosio D^P, Kumbhakar I^U, Hopperstad K^P, Huseth A^C. Pest and beneficial insect communities in North Carolina small grains. Organic Commodities Field Day, Kinston, NC. 07-22-2019. (109 attendees).

Lafferty A^T, Pellegrino A^G, Pecota K, Yencho C, Huseth A^C. Effects of sweet potato variety and water stress on wireworm feeding damage. Organic Commodities Field Day, Kinston, NC. 07-22-2019. (109 attendees).

Pellegrino A^G, D'Ambrosio D^P, Williams L, Millar J, Huseth A^C. Monitoring adult click beetle (Coleoptera: Elateridae) activity using pheromone baited pitfall traps. Organic Commodities Field Day, Kinston, NC. 07-22-2019. (109 attendees).

Lafferty A^T, and Huseth A^C. 2018. Wireworm pests of sweetpotato in North Carolina. NCSU Organic Crop Production Field Day, July 23, Bailey, NC.

Extension publications that were not peer reviewed

Reisig DD, and Huseth AS. 2020. North Carolina Insect Scouting Guide. North Carolina Extension Cotton Portal. Available at: <https://cotton.ces.ncsu.edu/insect-scouting-guide/>

Reisig DD, Huseth AS, Kennedy GG, Greene JK, Reay-Jones FPF, Roberts PM, Toews M, Smith R, Reed T, Jacobson AL and Herbert A. 2016. Managing thrips in cotton: research in the Southeast region. Virginia Cooperative Extension. Available at: <https://calcommproj.stl.vt.edu/Attachments/ENTO-182NP/ENTO-182NP%20Ldscepv5.pdf>

Huseth, AS and Groves RL. 2015. Water quality - maybe the next 'hot potato'. The Badger Common Tater. 65(1).

Huseth AS, Chapman SA, Nault BA and Groves RL. 2014. Managing Colorado potato beetle insecticide resistance: new tools and strategies for the next decade. The Badger Common Tater. 66(7):10-13.

Huseth AS and Nault BA. 2014. Managing Colorado potato beetle insecticide resistance - new tools & strategies. VEGEdge. Cornell University Cooperative Extension. 10(9):4.

Huseth AS and Groves RL. 2012. Groundhog day for the Colorado potato beetle: when will they emerge? The Badger Common Tater. 64(3):10-12.

Production Guides and Agricultural Chemical Manual Chapters

Reisig DD and Huseth AS. 2020. Insect control in field crops. 2020 North Carolina Agricultural Chemicals Manual. <https://content.ces.ncsu.edu/north-carolina-agricultural-chemicals-manual/insect-control>

- Chapters: Corn, cotton, sorghum, soybean, and small grains insecticides.

Walgenbach JF, Kennedy GG, and Huseth AS. 2020. Insect control in vegetable crops. 2020 North Carolina Agricultural Chemicals Manual. <https://content.ces.ncsu.edu/north-carolina-agricultural-chemicals-manual/insect-control>

Jennings K, Quesada-Ocampo L, Schultheis J, Woodley A, Yencho C, Pecota K, Huseth A, Smith SC, and Boyette M. Crop Production Management - Sweetpotatoes. North Carolina Organic Commodities Production Guide. AG-660. Available at: <https://content.ces.ncsu.edu/north-carolina-organic-commodities-production-guide/chapter-8-crop-production-management-sweetpotatoes>

Reisig DD and Huseth AS. 2019. Insect control in field crops. 2019 North Carolina Agricultural Chemicals Manual. <https://content.ces.ncsu.edu/north-carolina-agricultural-chemicals-manual/insect-control>

- Chapters: Corn, cotton, sorghum, soybean, and small grains insecticides.

Walgenbach JF, Kennedy GG, and Huseth AS. 2019. Insect control in vegetable crops. 2019 North Carolina Agricultural Chemicals Manual. <https://content.ces.ncsu.edu/north-carolina-agricultural-chemicals-manual/insect-control>

Online extension publications

Huseth AS, Thiessen L, Collins G, and Reisig DD. Detection of Cotton Leafroll Dwarf Virus (CLRDV) in North Carolina. Cotton Extension Portal. December 06, 2019. Available at: <https://cotton.ces.ncsu.edu/2019/12/detection-of-cotton-leafroll-dwarf-virus-clrdv-in-north-carolina/>

Reisig DD and Huseth AS. Fall armyworm infestations widespread in southeastern North Carolina. Cotton Extension Portal. October 05, 2019. Available at: <https://soybeans.ces.ncsu.edu/2019/10/fall-armyworm-infestations-widespread-in-southeastern-north-carolina/>

Huseth AS and Reisig DD. Update on thrips damage in cotton: insecticide resistance or reduced neonicotinoid protection? Cotton Extension Portal. May 20, 2019. Available at: <https://cotton.ces.ncsu.edu/2019/05/update-on-thrips-damage-in-cotton-insecticide-resistance-or-reduced-neonicotinoid-protection-huseth-reisig-collins/>

Huseth AS and Reisig DD. Planning for thrips infestations in 2019 cotton. Cotton Extension Portal. April 26, 2019. Available at: <https://cotton.ces.ncsu.edu/2019/04/planning-for-thrips-infestations-in-2019-cotton-huseth-reisig/>

Reisig DD, Collins G, and Huseth AS. Choosing an insecticidal seed treatment or in-furrow for thrips in cotton. Cotton Extension Portal. February 14, 2019. Available at: <https://cotton.ces.ncsu.edu/2019/02/choosing-an-insecticidal-seed-treatment-or-in-furrow-for-thrips-in-cotton-reisig-collins-huseth/>

Reisig DD, Huseth AS, and Collins G. At-planting thrips insecticide recommendations for cotton. Cotton Extension Portal. April 02, 2018. Available at: <https://cotton.ces.ncsu.edu/2018/04/at-planting-thrips-insecticide-recommendations-for-cotton-reisig-huseth-collins/>

Reisig DD, Kennedy GG, Chappell T, Huseth AS. Use the thrips forecasting tool to make pre-plant management decisions. Cotton Extension Portal. April 10, 2017. Available at: <https://cotton.ces.ncsu.edu/2017/04/use-the-thrips-forecasting-tool-to-make-preplant-management-decisions-kennedy-chappell-huseth-reisig/>