

Ashley N. Dean

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Department of Entomology

Ames, IA 50011-1101

Education:

M.S. Entomology – Iowa State University, Ames, Iowa

May 2017 to December 2019 | Minor: Crop Production & Physiology

Advisers: Drs. Matthew O’Neal and Erin Hodgson

Thesis: What are the consequences of resistance? Exploring the impacts of insecticide and host-plant resistance for insect pest management (<https://lib.dr.iastate.edu/etd/17665>)

B.S. Agronomy – Iowa State University, Ames, Iowa

August 2013 to May 2017 | Minor: General Business

Work Experience

Education Extension Specialist I – Field Crop Entomology (Jan 2020 – present) | Department of Entomology, Iowa State University, Ames, IA | Extension (50%) and Research (50%)

- Pioneered and coordinated the Iowa corn rootworm monitoring network
 - Collaborated with regional extension personnel
 - Created a shared protocol and goals for corn rootworm monitoring
- Iowa moth trapping network coordinator; true armyworm and black cutworm monitoring
- Co-project leader for the Iowa insecticide efficacy evaluation for soybean aphid, Japanese beetle, and soybean gall midge
- Development of educational resources for field crop insect pests
- Contributor to Integrated Crop Management (ICM) News & Blog
- Research efforts include multi-species moth trapping, insecticide efficacy evaluations for Japanese beetle, soybean aphid, and corn pests, estimating soybean defoliation, and evaluating insect populations in corn following cover crops
- Iowa cooperator for University of Minnesota’s *Aphelinus* survey

Graduate Research Assistant (May 2017 – December 2019) | Department of Entomology, Iowa State University, Ames, IA | Co-advised by Drs. Matthew O’Neal and Erin Hodgson

- Evaluated efficacy of soybean aphid resistant varieties in different yield environments compared to aphid susceptible varieties
- Created a soybean budget for soybean aphid management tactics and developed an economic model for insect pest management, incorporating probabilities of resistant pests
- Iowa moth trapping network coordinator for ISU Extension; true armyworm, black cutworm, and European corn borer monitoring
- Co-project leader for the Iowa insecticide efficacy evaluation for soybean aphid, Japanese beetle, and soybean gall midge

- Iowa cooperator for University of Minnesota's *Aphelinus* survey
- Helped carry out a novel protocol for residual testing of a new insecticide
- Carried out protocols for several defoliation studies in both soybean and corn
- Performed aphid colony maintenance of field-collected populations
- Managed undergraduate students during field work
- Mentored a new Entomology graduate student
- Collected and curated insects for archival
- Software proficiency: Microsoft Office, Adobe Creative Suites, SigmaPlot, ArcGIS Pro, and SAS

South Central Iowa Agronomy Sales Intern (May – August 2016) | DuPont Pioneer, Johnston, IA

- Took soil samples, stand counts, and disease ratings and scouted for pests
- Attended meetings with the sales team
- Entered data into online data systems

Insect Trait Characterization Intern I (May – August 2015) | DuPont Pioneer, Johnston, IA

- Infested research plots with western corn rootworm eggs
- Conducted pressure checks at six research locations and assisted with plot maintenance
- Infested and sampled plots for soybean insect trait development
- Rated damage severity for various trait development insect pest trials
- Oversaw and trained field employees in daily tasks and proper field procedures

Undergraduate Research Assistant (August 2014 – May 2016) | Iowa State University, Ames, IA

- Extracted corn embryos for genetic analysis
- Weighed, shelled, and conditioned seed samples
- Conducted warm and cold germination tests
- Analyzed corn seedlings for growth defects and abnormalities

Research Technician Intern (May – August 2014) | Easton Agri-Consulting, Bagley, IA

- Collected soil samples with hand probe and tractor probe
- Collected tissue samples on various row and vegetable crops
- Took stand counts and weed and disease ratings, mixed chemicals, and hand-pollinated corn
- Planted research plots by hand or with custom research equipment
- Maintained research plots, including weeding and watering

Teaching Assistant (August 2013 – May 2017) | Iowa State University, Ames, IA

- Graded coursework for five agronomy classes and entered data
- Assisted professor with tasks involving greenhouse work, organization, and contest preparations that supplemented coursework

Scholarships

1. Dr. Jean L. Laffoon Memorial Scholarship, Iowa State University, 2018
2. Cain and Bogle Family Graduate Fellowship, Iowa State University, 2018
3. Iowa Seed Association Scholarship, 2017
4. ASA Golden Opportunity Scholar, 2016
5. Agronomy Academic Fellowship, Iowa State University, 2013 – 2017
6. Academic Recognition Award, Iowa State University, 2013 – 2017
7. Cardinal Scholar Award, Iowa State University, 2013 – 2015

Awards

1. ESA Student Paper Competition, November 2019 – 2nd place
2. ISU GPSA M.S. Poster Competition, April 2019 – 3rd place
3. ESA-NCB M.S. Paper Competition, March 2019 – 2nd place
4. ASA Student Paper Competition, November 2018 – 3rd place
5. ESA-NCB M.S. Paper Competition, March 2018 – 2nd place
6. ISU GPSA M.S. Poster Competition, April 2018 – 2nd place

Professional Memberships

1. Entomological Society of America, since 2017
2. ASA-CSSA-SSSA, 2016-2020
3. National Society of Collegiate Scholars, since 2014
4. Entomology Graduate Student Organization, 2017 – 2019
5. Sustainable Agriculture Student Association member, 2017 – 2018

Extension Presentations

Events

1. 2021 Virtual Crop Scout School | webinar | Crop Protection Network – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. XX recording views.
2. CropsTV | December 1, 2020 | via Zoom – Soybean pest update. Erin Hodgson and **Ashley Dean**. 100 participants during live show; 15 recording views.
3. Field Crop Scout School | March 7, 2020 | Ames, IA – Insect identification, sampling and management. **Ashley Dean** and Erin Hodgson. 47 participants, 2 sessions.
4. Precision Ag and Animal Science Days | September 5, 2019 | Sutherland, IA – What’s bugging crops? **Ashley Dean** and Caleb Corona. 85 participants, 7 sessions.
5. Crop Management Clinic | July 11, 2019 | Boone, IA – 22 participants
 - a. Corn insect pest updates. Erin Hodgson and **Ashley Dean**.
 - b. Soybean IPM and defoliation estimates. Erin Hodgson and **Ashley Dean**.
6. 4-H Conference Workshop | June 25, 2019 | Ames, IA – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. 17 participants.
7. Crop Scout School | March 30, 2019 | Boone, IA – Insect identification, sampling, and management. Erin Hodgson, and **Ashley Dean**. 30 participants.

8. Crop Advantage Series – Fly in the ointment: soybean gall midge is a new pest. Erin Hodgson, Justin McMechan, and **Ashley Dean**.
 - a. Le Mars, IA; January 22, 2019 – 50 participants
 - b. Atlantic, IA; January 24, 2019 – 100 participants
 - c. Iowa City, IA; January 29, 2019 – 58 participants, 2 sessions.
9. Ag Chemical Dealer Update | December 12, 2018 | Ames, IA – Fly in the ointment: soybean gall midge is a new pest. Erin Hodgson, Justin McMechan, and **Ashley Dean**. 66 participants.
10. 4-H Conference Workshop | June 27, 2018 | Ames, IA – Insect identification, sampling, and management. Erin Hodgson and **Ashley Dean**. 13 participants.
11. Crop Scout School | March 25, 2018 | Boone, IA – Introduction to insect diagnostics. Erin Hodgson, and **Ashley Dean**. 45 participants.

Field Days

1. ISU Southeast Research Farm Fall Field Day | September 9, 2021 | Crawfordsville, IA – Corn rootworm update. Erin Hodgson and **Ashley Dean**. 25 participants.
2. Champion Seed Field Day | August 25, 2020 | Boone, IA – Corn rootworm update. Erin Hodgson and **Ashley Dean**. 40 participants, 3 sessions.
3. Dordt Field Days | September 4, 2019 | Sioux Center, IA – Soybean gall midge update. **Ashley Dean** and Mitchell Helton. 120 participants, 3 sessions.

Conferences

1. Integrated Crop Management Conference | December 1-2, 2021 | Ames, IA
 - a. IPM 101. Meaghan Anderson and **Ashley Dean**. XX participants.
 - b. Insect trapping networks in Iowa: moths, corn rootworms, and implications for integrated pest management (IPM). **Ashley Dean** and Erin Hodgson. XX participants.
2. Integrated Crop Management Conference | December 4, 2019 | Ames, IA – Building a budget for pest resistance. **Ashley Dean**, Matthew O’Neal, Erin Hodgson, Ivair Valmorbidia, Jessica Hohenstein, and Brad Coates. 120 participants, 2 sessions.

Invited Symposia

1. Entomological Society of America – Trapping Networks: Using Areawide Trap Data to Improve Pest Management symposium | November 3, 2021 | virtual submission – Creating a regional sticky trap network for corn rootworm adults: take-aways from year one. **Ashley Dean**. XX recording views.

In-Service

1. 2021 Crops Team Fall In-service | September 22, 2021 | Boone, IA – Corn rootworm trapping network summary. **Ashley Dean**. 20 participants.

Guest Lectures

1. Hoegemeyer | November 23, 2021 | Ames, IA – Corn rootworm management. **Ashley Dean**, Erin Hodgson, and Aaron Gassmann. 30 participants.
2. Wyffels | October 25, 2021 | via Zoom – Corn rootworm update. Erin Hodgson and **Ashley Dean**. 5 participants.

3. Agronomy 279 | August 16, 2021 | Boone, IA – Insect identification, sampling, and management. **Ashley Dean**, and Erin Hodgson. 45 participants.
4. Loveland/Nutrien | May 19, 2021 | via Teams – Black cutworm: sampling and management. **Ashley Dean**. 30 participants.
5. Agronomy 279 | August 14, 2019 | Boone, IA – Insect identification, sampling, and management. **Ashley Dean** and Erin Hodgson. 45 participants, 2 sessions.
6. Agronomy 594 | July 18, 2018 | Boone, IA – Insect identification, sampling, and management. Erin Hodgson and **Ashley Dean**. 28 participants.
7. Agronomy 279 | August 14, 2018 | Boone, IA – Insect identification, sampling, and management. Erin Hodgson, and **Ashley Dean**. 20 participants.

Research Presentations

Invited Papers:

1. Soybean Breeders Workshop – Soybean Aphid Session | February 23, 2021 | via Zoom – Developing a decision-making framework for pest management. **Ashley Dean**. 110 participants.

Conference Papers:

1. Entomological Society of America | November 18, 2019 | St. Louis, MO – Optimizing profit for farmers managing soybean aphid. **Ashley Dean**, Jarad Niemi, John Tyndall, Erin Hodgson, and Matthew O’Neal.
2. ISU Department of Entomology Exit Seminar | October 21, 2019 | Ames, IA – What are the consequences of resistance? Exploring the impacts of insecticide and host-plant resistance for insect pest management. **Ashley Dean**.
3. Entomological Society of America – North Central Branch | March 18, 2019 | Cincinnati, OH – Optimizing profit for farmers managing soybean aphid. **Ashley Dean**, Jarad Niemi, John Tyndall, Erin Hodgson, and Matthew O’Neal.
4. American Society of Agronomy: Applied Soybean Research Session | November 6, 2018 | Baltimore, MD – Using soybean genetics to evaluate the value of soybean aphid management tactics. **Ashley Dean**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal.
5. Entomological Society of America – North Central Branch | March 19, 2018 | Madison, WI – Using soybean genetics to evaluate the value of soybean aphid management tactics. **Ashley Dean**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal.
6. Entomological Society of America | November 13, 2018 | Vancouver, BC, Canada – Residual testing study of Sefina™ on soybean aphid. Hodgson, Erin, Christa Ellers-Kirk, Greg VanNostrand, and **Ashley Dean**.

Posters:

1. Graduate Program in Sustainable Agriculture (GPSA) Poster Competition | April 17, 2019 | Ames, IA – Optimizing profit for farmers managing soybean aphid. **Ashley Dean**, Jarad Niemi, John Tyndall, Erin Hodgson, and Matthew O’Neal.
2. Graduate Program in Sustainable Agriculture (GPSA) Poster Competition | April 18, 2018 | Ames, IA – Using soybean genetics to evaluate the value of soybean aphid management tactics. **Ashley Dean**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal.
3. Graduate & Professional Student Senate (GPSS) Research Conference | April 11, 2018 | Ames, IA – Using soybean genetics to evaluate the value of soybean aphid management tactics. **Ashley Dean**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal.

4. Entomological Society of America annual meeting | November 5-8, 2017 | Denver, CO – Optimizing yield environments and soybean genetics for soybean aphid management. **Ashley Dean**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal.
5. Global Food Security Consortium & the Leroy and Barbara Everson Seed and Biosafety Symposium | April 13-14, 2016 | Ames, IA – Physiological and Morphological Effects of Chemical Defoliation on Seed Corn. Katharina Wigg, **Ashley Dean**, A. Susana Goggi, and Erik Christian.
6. Symposium on Undergraduate Research & Creative Expression | April 5, 2016 | Ames, IA - Physiological and Morphological Effects of Chemical Defoliation on Seed Corn. Katharina Wigg, **Ashley Dean**, A. Susana Goggi, and Erik Christian.

All Peer reviewed publications, newsletter articles, reports, and other publications can be found on my Google Scholar profile: <https://scholar.google.com/citations?user=8K7MphcAAAAJ&hl=en>.

Journal Articles

Extension:

1. **Dean, Ashley N.**, Erin W. Hodgson, Angie Reick-Hinz, and Meaghan Anderson. 2021. Needs assessment for corn insect pest management in Iowa. Journal of Integrated Pest Management, DOI: <https://doi.org/10.1093/jipm/pmab021>.
2. Hodgson, Erin W., **Ashley N. Dean**, and Marlin E. Rice. 2021. Recognizing feeding injury to corn ears in the U.S. Journal of Integrated Pest Management, *in prep*.
3. Hodgson, Erin, **Ashley Dean**, and Zhenzhong Wang. 2020. Using an immediate feedback tool to improve learning and facilitate program evaluation. Journal of Extension, 58(4): v58-4rb4. <https://archives.joe.org/joe/2020august/rb4.php>.
4. Shanovich, Hailey N., **Ashley N. Dean**, Robert L. Koch, and Erin W. Hodgson. 2019. Biology and management of the Japanese beetle in corn and soybean. Journal of Integrated Pest Management, DOI: <https://doi.org/10.1093/jipm/pmz015>.

Research:

1. **Dean, Ashley N.**, Katharina Wigg, Everton Zambiazzi, Erik J. Christian, A. Susana Goggi, Aaron Schwarte, Jeremy Johnson, and Edgar Cabrera. 2021. Migration of oil bodies in embryo cells during acquisition of desiccation tolerance in chemically-defoliated corn (*Zea mays* L.) seed production fields. Agriculture, 11(2): 129. DOI: <https://doi.org/10.3390/agriculture11020129>.
2. **Dean, Ashley N.**, Jarad B. Niemi, John C. Tyndall, Erin W. Hodgson, and Matthew E. O’Neal. 2020. Developing a decision-making framework for insect pest management: a case study using *Aphis glycines* (Hemiptera: Aphididae). Pest Management Science, 77: 886-894. DOI: <https://doi.org/10.1002/ps.6093>.
3. Hodgson, Erin W., **Ashley N. Dean**, Greg VanNostrand, and Christa Ellers-Kirk. 2020. Developing a residual testing protocol for soybean aphid (Hemiptera: Aphididae). The Journal of the Kansas Entomological Society, 93: 24-33. DOI: <https://doi.org/10.2317/0022-8567-93.1.24>.
4. **Dean, Ashley N.**, Shelby Pritchard, John C. Tyndall, Erin W. Hodgson, and Matthew E. O’Neal. 2019. Evaluating soybean aphid resistant varieties in different environments to estimate financial outcomes. Journal of Economic Entomology, 113(2): 940–948. DOI: <https://doi.org/10.1093/jee/toz309>.

Newsletter Articles

1. Hodgson, Erin, and **Ashley Dean**. Fall armyworm is a 2021 late-season pest. In Integrated Crop Management Blog, September 2, 2021.
2. **Dean, Ashley**, and Erin Hodgson. Farmer feedback: needs assessment reveals growers' views on corn insect pests in Iowa. In Entomology Today, August 18, 2021.
3. **Dean, Ashley**, Erin Hodgson, and Rebecca Vittetoe. Summary of corn root injury evaluation in southeast Iowa. In Integrated Crop Management Blog, July 21, 2021.
4. **Dean, Ashley**, and Erin Hodgson. First soybean aphids found in central Iowa. In Integrated Crop Management Blog, June 18, 2021.
5. Hodgson, Erin, **Ashley Dean**, and Mitchell Helton. Soybean gall midge adult emergence beginning in Iowa. In Integrated Crop Management News, June 17, 2021.
6. **Dean, Ashley**, and Erin Hodgson. Corn rootworm egg hatch peaking in Iowa. In Integrated Crop Management News, June 14, 2021.
7. **Dean, Ashley**, and Erin Hodgson. Japanese beetle adult emergence beginning in southern Iowa. In Integrated Crop Management News, June 11, 2021.
8. **Dean, Ashley**, and Erin Hodgson. Grubs active in central Iowa. In Integrated Crop Management Blog, June 10, 2021.
9. **Dean, Ashley**, and Erin Hodgson. Record year for alfalfa weevil. In Integrated Crop Management Blog, June 10, 2021.
10. **Dean, Ashley**, and Erin Hodgson. Stalk borers are on the move across Iowa. In Integrated Crop Management News, June 8, 2021.
11. **Dean, Ashley**. Final moth trapping network update for 2021. In Integrated Crop Management Blog, June 3, 2021.
12. **Dean, Ashley**. 2021 Iowa moth trapping network update: Week 8. In Integrated Crop Management Blog, May 26, 2021.
13. **Dean, Ashley**, and Erin Hodgson. Join the corn rootworm adult monitoring network. In Integrated Crop Management Blog, May 20, 2021.
14. **Dean, Ashley**. 2021 Iowa moth trapping network update: Week 7. In Integrated Crop Management Blog, May 20, 2021.
15. **Dean, Ashley**, and Erin Hodgson. Soybean aphid egg hatch complete. In Integrated Crop Management News, May 13, 2021.
16. **Dean, Ashley**. 2021 Iowa moth trapping network update: Week 6. In Integrated Crop Management Blog, May 12, 2021.
17. **Dean, Ashley**, and Erin Hodgson. Begin scouting for black cutworm in corn. In Integrated Crop Management News, May 11, 2021.
18. Hodgson, Erin, Meaghan Anderson, and **Ashley Dean**. Sweeping in alfalfa is always a good time. In Integrated Crop Management Blog, May 11, 2021.
19. **Dean, Ashley**. 2021 Iowa moth trapping network update: Week 5. In Integrated Crop Management Blog, May 6, 2021.
20. **Dean, Ashley**. 2021 Iowa moth trapping network update: Week 4. In Integrated Crop Management Blog, April 29, 2021.
21. Hodgson, Erin, and **Ashley Dean**. Bean leaf beetles are hungry. In Integrated Crop Management Blog, April 28, 2021.
22. **Dean, Ashley**. 2021 Iowa moth trapping network update: Week 3. In Integrated Crop Management Blog, April 26, 2021.

23. **Dean, Ashley**, and Erin Hodgson. High mortality rates for bean leaf beetle in northern Iowa. In Integrated Crop Management News, April 21, 2021.
24. **Dean, Ashley**. 2021 Iowa moth trapping network update: Week 2. In Integrated Crop Management Blog, April 14, 2021.
25. **Dean, Ashley**, and Erin Hodgson. Alfalfa weevils active throughout southern Iowa. In Integrated Crop Management News, April 12, 2021.
26. **Dean, Ashley**, and Erin Hodgson. Seedcorn maggots get an early start. In Integrated Crop Management News, April 12, 2021.
27. **Dean, Ashley**. 2021 Iowa moth trapping network update: Week 1. In Integrated Crop Management Blog, April 8, 2021.
28. Anderson, Meaghan, **Ashley Dean**, and Erin Hodgson. Insect overwintering: a bit like Goldilocks? In Integrated Crop Management Blog, February 16, 2021.
29. **Dean, Ashley**, and Erin Hodgson. Join the Iowa moth trapping network in 2021. In Integrated Crop Management Blog, February 15, 2021.
30. **Dean, Ashley**, and Erin Hodgson. Summary of 2020 insecticide evaluations for soybean pests. In Integrated Crop Management News, January 10, 2021.
31. **Dean, Ashley**, and Erin Hodgson. Soybean gall midge brown bag series. In Integrated Crop Management Blog, January 7, 2021.
32. **Dean, Ashley**, and Erin Hodgson. Corn rootworm monitoring network summary. In Integrated Crop Management News, September 10, 2020.
33. **Dean, Ashley**, and Erin Hodgson. What insects are in my (corn) ears? In Integrated Crop Management Blog, August 14, 2020.
34. Hodgson, Erin, and **Ashley Dean**. Don't wait for your corn to go down. In Integrated Crop Management Blog, July 18, 2020.
35. **Dean, Ashley**, and Erin Hodgson. Potato leafhoppers abundant in soybean and alfalfa. In Integrated Crop Management News, July 10, 2020.
36. **Dean, Ashley**, and Erin Hodgson. Soybean gall midge larvae active in Iowa. In Integrated Crop Management News, July 2, 2020.
37. **Dean, Ashley**, and Erin Hodgson. Planted non-Bt corn? Plan to scout for European corn borer. In Integrated Crop Management News, June 12, 2020.
38. Hodgson, Erin, and **Ashley Dean**. Corn rootworm egg hatch getting a late start in Iowa. In Integrated Crop Management News, June 9, 2020.
39. **Dean, Ashley**. Final moth trapping network update for 2020. In Integrated Crop Management Blog, June 3, 2020.
40. Hodgson, Erin, and **Ashley Dean**. Start scouting for stalk borers in southern Iowa. In Integrated Crop Management News, June 2, 2020.
41. **Dean, Ashley**. Iowa moth trapping network update: Week 8. In Integrated Crop Management Blog, May 27, 2020.
42. Hodgson, Erin, and **Ashley Dean**. Don't snub those grubs. In Integrated Crop Management Blog, May 22, 2020.
43. **Dean, Ashley**. Iowa moth trapping network update: Week 7. In Integrated Crop Management Blog, May 20, 2020.
44. **Dean, Ashley**, and Erin Hodgson. New trapping network for corn rootworm. In Integrated Crop Management Blog, May 20, 2020.
45. **Dean, Ashley**. Iowa moth trapping network update: Week 6. In Integrated Crop Management Blog, May 13, 2020.

46. **Dean, Ashley**, and Erin Hodgson. 2020 scouting recommendations for black cutworm. In Integrated Crop Management News, May 11, 2020.
47. **Dean, Ashley**. Iowa moth trapping network update: Week 5. In Integrated Crop Management Blog, May 6, 2020.
48. Hodgson, Erin, and **Ashley Dean**. Alfalfa weevils active throughout Iowa. In Integrated Crop Management News, May 6, 2020.
49. **Dean, Ashley**. Iowa moth trapping network update: Week 4. In Integrated Crop Management Blog, April 30, 2020.
50. Hodgson, Erin, and **Ashley Dean**. Mild winter favors bean leaf beetle survival. In Integrated Crop Management News, April 24, 2020.
51. **Dean, Ashley**. Iowa moth trapping network update: Week 3. In Integrated Crop Management Blog, April 24, 2020.
52. **Dean, Ashley**. Iowa moth trapping network update: Weeks 1 and 2. In Integrated Crop Management Blog, April 24, 2020.
53. **Dean, Ashley**, and Erin Hodgson. Survival effects of fluctuating temperatures on insects. In Integrated Crop Management News, April 22, 2020.
54. **Dean, Ashley**, and Erin Hodgson. Management considerations for slugs: do insecticides work? In Integrated Crop Management News, March 19, 2020.
55. **Dean, Ashley**, and Erin Hodgson. Management considerations for millipedes and isopods: do insecticides work? In Integrated Crop Management News, March 18, 2020.
56. **Dean, Ashley**, and Erin Hodgson. We need you! Iowa moth trapping network seeking cooperators for 2020. In Integrated Crop Management Blog, February 21, 2020.
57. **Dean, Ashley**, and Erin Hodgson. Corteva™ to end chlorpyrifos production: what does this mean for Iowa farmers? In Integrated Crop Management News, February 21, 2020.
58. Hodgson, Erin, and **Ashley Dean**. Summary of 2019 insecticide evaluations for soybean pests. In Integrated Crop Management News, January 13, 2020.
59. Hodgson, Erin, and **Ashley Dean**. Corn earworm found in corn. In Integrated Crop Management Blog, August 2, 2019.
60. Hodgson, Erin, and **Ashley Dean**. Assessing corn rootworm activity using sticky traps. In Integrated Crop Management Blog, July 23, 2019.
61. Hodgson, Erin, and **Ashley Dean**. Potato leafhopper management in alfalfa. In Integrated Crop Management Blog, July 23, 2019.
62. Hodgson, Erin, and **Ashley Dean**. Caterpillar bonanza continues. In Integrated Crop Management Blog, July 12, 2019.
63. **Dean, Ashley**, Adam Sisson, and Erin Hodgson. Final 2019 Moth Trapping Update. In Integrated Crop Management Blog, June 6, 2019.
64. **Dean, Ashley**, Adam Sisson, and Erin Hodgson. Moth trapping update #2. In Integrated Crop Management Blog, May 13, 2019.
65. **Dean, Ashley**, Erin Hodgson, and Adam Sisson. Scouting for black cutworm 2019. In Integrated Crop Management News, May 12, 2019.
66. **Dean, Ashley**, Adam Sisson, and Erin Hodgson. Moth trapping begins in Iowa. In Integrated Crop Management Blog, April 19, 2019.
67. Hodgson, Erin, **Ashley Dean**, and Adam Sisson. Black cutworm and armyworm trapping network call for cooperators 2019. In Integrated Crop Management Blog, February 22, 2019.
68. **Dean, Ashley**, Adam Sisson, and Erin Hodgson. Black cutworm monitoring 2018. In Integrated Crop Management News, May 29, 2018.

Reports and Other Publications

Extension:

1. Hodgson, E. W., and **Ashley Dean**. 2021. Datasheet for *Popillia japonica* Newman (Coleoptera: Scarabaeidae). Crop Protection Compendium, CAB International, Wallingford, United Kingdom.
2. Hodgson, Erin, Aaron Gassmann, and **Ashley Dean**. 2020. Current challenges in managing corn rootworm. Iowa State University Extension and Outreach, Publication 3169.
3. Hodgson, E. W., **A. Dean**, V. Schmitt, and N. Seiter. 2020. Insect and mite management, pp. 109-116. *In* Hodgson, Licht, and Sisson (eds.), Field Crop Production Handbook, Iowa State University Extension and Outreach, Publication 3162.
4. **Dean, Ashley**, and Erin Hodgson. 2020. Cold hardiness of insects and the impact of fluctuating temperatures. Integrated Crop Management Encyclopedia.
5. Corona, Caleb, **Ashley Dean**, and Erin Hodgson. 2020. Getting to know popular insecticides used in Iowa field crops. Integrated Crop Management Encyclopedia.
6. Hodgson, Erin and **Ashley Dean**. 2018. Soybean gall midge: a new field crop pest. Iowa State University Extension and Outreach, Publication 3157.

Research:

1. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Terry Tuttle. 2021. Iowa State University Northwest Research Farm 2020 soybean aphid efficacy evaluation. Iowa State University Research and Demonstration Farms Progress Reports, 2020.
2. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Ken Pecinovsky. 2021. Japanese beetle insecticide efficacy evaluation. Iowa State University Research and Demonstration Farms Progress Reports, 2020.
3. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Mitchell Helton. 2020. 2020 Report of Insecticide Evaluation, 39 pp. Department of Entomology, Iowa State University.
4. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Ken Pecinovsky. 2020. Japanese beetle insecticide efficacy evaluation in northeast Iowa. Iowa State University Research and Demonstration Farms Progress Reports, 2019(1).
5. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Kent Berns. 2019. Residual testing of Sefina insecticide on soybean aphid. Iowa State University Research and Demonstration Farms Progress Reports, 2018.
6. Hodgson, Erin, Greg VanNostrand, **Ashley Dean**, and Mitchell Helton. 2019. 2019 Report of Insecticide Evaluation, 29 pp. Department of Entomology, Iowa State University.
7. Hodgson, Erin, Greg VanNostrand, and **Ashley Dean**. 2018. 2018 Report of Insecticide Evaluation, 22 pp. Department of Entomology, Iowa State University.
8. **Dean, Ashley**, Erin Hodgson, and Matthew O'Neal. 2018. Evaluation of soybean aphid management tactics. Iowa State University Research and Demonstration Farms Progress Reports, 2018.

Conference Proceedings

Extension:

1. **Dean, Ashley**, and Erin Hodgson. Insect trapping networks in Iowa: moths, corn rootworms, and implications for integrated pest management (IPM). Integrated Crop Management Conference, Ames, IA. December 1-2, 2021.

Research:

1. **Dean, Ashley N.**, Jarad Niemi, John Tyndall, Erin W. Hodgson, and Matthew E. O’Neal. Optimizing profit for farmers managing soybean aphid. Entomology 2019, St. Louis, MO. November 18, 2019.
2. Hodgson, Erin W., Christa Eilers-Kirk, Gregory VanNostrand, and **Ashley Dean**. Residual testing study of Sefina™ on soybean aphid. Entomology 2018, Vancouver, BC. November 13, 2018.
3. **Dean, Ashley**, Shelby Pritchard, Erin Hodgson, and Matthew O’Neal. Using soybean genetics to evaluate the value of soybean aphid management tactics. ASA, CSSA, and CSA International Annual Meeting, Baltimore, MD. November 6, 2018.

Service Activities

Iowa State University – Extension and Outreach

- Fall and winter Crops Team in-service planning committee, 2021
- Women in Agriculture lunch at the Integrated Crop Management Conference, December 2021
- Judge, Regional Youth Crop Scouting Competition, September 2021 (virtual)
- Judge, Iowa Youth Crop Scouting Competition, August 2018; 2019; 2020 (virtual); 2021
- Moderator and tech support for CropsTV sessions, 2020/2021
- Entomology instructor, Master Gardener Class-on-Campus, October 2019
- Volunteer, Integrated Crop Management Conference, November 2018

Iowa State University – Student Organizations

- Volunteer, EGSO Fundraising events, 2019
- Volunteer, Pollinator Fest, June 2017; June 2018; June 2019
- Volunteer, Insect Film Festival, November 2017; November 2018
- Volunteer, Harvest Fest, September 2017; October 2018
- Volunteer, Food at First, October 2017
- Secretary, Entomology Graduate Student Organization, 2018-2019
- Secretary, Sustainable Agriculture Student Association, 2017-2018

Entomological Society of America

- Judge, Student 10-minute papers – Field Crops 2, November 2021

Interviews

Radio:

1. KICD | Topic: European corn borer | June 26, 2020

Press:

1. The Washington Post | Topic: Fall armyworm | September 17, 2021
2. Brownfield Ag Network | Topic: Alfalfa weevil | April 15, 2021

Podcast:

1. Soybean Pest Podcast | Season 12: Episode 8 | Don’t know what you got till it’s gone? Chlorpyrifos banned. August 20, 2021.

2. I See Dead Plants Podcast | Season 1: Episode 2 | Discovering the right decision: soybean aphid IPM – part 2. July 28, 2021.
3. I See Dead Plants Podcast | Season 1: Episode 1 | Discovering the right decision: soybean aphid IPM – part 1. July 28, 2021.
4. Soybean Pest Podcast | Season 11: Episode 3 | Don't snub those grubs. May 22, 2020.

Other Activities

Conferences

- Attendee, ESA-North Central Branch conference, 2018 – 2019
- Attendee, ASA and CSSA annual meeting, 2018
- Attendee, ESA Annual meeting conference, 2017, 2019, 2021
- Attendee, ASA-CSSA-SSSA annual meeting and SASSES tours, 2016
- Attendee, ASTA conference, 2015

Field Days

- Attendee, Iowa Learning Farms Virtual Field Days, Fall 2020
- Attendee, Iowa State University Virtual Field Days, Fall 2020
- Attendee, Armstrong Research Farm Field Day, 2019
- Attendee, Iowa State University Crop Scout School, 2018

Professional Development

- ANR Fall In-Service | ISU Extension and Outreach, September 24, 2021
- ANR Crops Team Fall In-Service | ISU Extension and Outreach, September 21-23, 2021
- Tri-State Corn Rootworm Management Meeting | Iowa, Illinois, Wisconsin | (webinar)
- ANR Crops Team Spring In-Service | ISU Extension and Outreach, March 22-24, 2021
- Soybean Gall Midge Brown Bag series | Midwest universities | (webinar)
- CropsTV | ISU Extension and Outreach (online)
- Field Agronomists Winter In-Service | ISU Extension and Outreach (online)
- ANR Fall Professional Development | ISU Extension and Outreach (online)
- How to Make Great Scientific Figures | Entomological Society of America (webinar)
- Seedcorn Maggot | Dr. Brian Nault, Cornell University (webinar)
- What a Recruiter Wished you Knew Before Approaching Them | Entomological Society of America (webinar)

Miscellaneous

- Shared graduate school and extension experience with Women in Agronomy group, 2021
- Linnaean Games team member, 2019
- Summer internship presentation at DuPont Pioneer, 2015