

NCERA IPM State Report

Journal articles and book chapters

Aita, R.C., D.T. Pezzini, E.C. Burkness, C.D. DiFonzo, D.L. Finke, T.E. Hunt, J.J. Knodel, C.H. Krupke, L. Marchi-Werle, B. McCornack, A.P. Michel, R. Philips, N.J. Seiter, A.J. Varenhorst, R.J. Wright, W.D. Hutchison, and R.L. Koch. 2021. Presence, Absence Sampling Plans for Stink Bugs (Hemiptera: Pentatomidae) in the Midwest Region of the United States. *J. Econ. Entomol.* 114(3):1362-1372. <https://doi.org/10.1093/jee/toab076>

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Knodel, J.J. 2021. Scout for banded sunflower moth eggs. NDSU Extension Crop and Pest Report #12 (July 15, 2021).

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Knodel, J.J. 2021. IPM crop survey - insect update. NDSU Extension Crop and Pest Report #16 (August 12, 2021).

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Michele Warmund: Elderberry Insect and Disease Management, University of Missouri Extension

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Mandy Bish: Managing Dicamba in Roundup Ready 2 Xtend and XtendFlex Soybean. United Soybean Board funded publication (revised from the 2020 version), www.takeactiononweeds.com.

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M. Schuh. Losing Lorsban: Looking Ahead to 2022. 2021. UMN Extension Fruit and Vegetable News. 471 views in 2021.

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M. Schuh. Heatwave makes vegetables misbehave. 2021. UMN Extension Yard and Garden News. Republished by Lake County Lure. 5,046 views in 2021.

M. Schuh. Sweet corn pests: the ones you'll notice versus the one to worry about. 2021. UMN Extension Fruit and Vegetable News. 284 views in 2021.

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M. Schuh. Leafhopper Watch: Hot Weather and Aster Yellows Risk. 2021. UMN Extension Fruit and Vegetable News. 497 views in 2021.

M. Schuh. Cucumber Beetle Boom: What Now?. 2021. UMN Extension Fruit and Vegetable News. 187 views in 2021.

M. Schuh. How is the hot weather affecting plant diseases?. 2021. UMN Extension Yard and Gardens News. 851 in 2021.

M. Schuh. Heat-Loving pests. 2021. UMN Extension Fruit and Vegetable News. 255 views in 2021.

M. Schuh. How a heatwave affects garden pests. 2021.UMN Extension Yard and Garden News. 1,854 in 2021.

M. Schuh. Hot take: wasps are cool. 2021. UMN Yard and Garden News. 2,013 views in 2021.

Hoidal, N. and M. Schuh. 2021 Considerations: Probing Pepper Production, 2021. UMN Extension Fruit and Vegetable News. 127 views in 2021.

Hoidal, N. and M. Schuh. 2021 Considerations: Pondering Potatoes, 2021. UMN Extension Fruit and Vegetable News. 132 views in 2021.

Hoidal, N. and M. Schuh. 2021 Considerations: Sweet Corn, 2021. UMN Extension Fruit and Vegetable News. 201 views in 2021.

M. Schuh. Weed Control in Pumpkins and Winter Squash, 2021. UMN Extension Fruit and Vegetable News. Republished by Vegetable Growers News. 1076 views in 2021.

M. Schuh. Sharing Garden Plants, Seeds, and Tools Safely, 2021. UMN Extension Master Gardener Program Hot Topic.

Hoidal, N. and M. Schuh. 2021 Considerations: Mind your Peas and Beans, 2021 UMN Extension Fruit and Vegetable News. 152 views in 2021.

Hoidal, N. and M. Schuh. 2021 Considerations: Raising Root Vegetables Right, 2021 UMN Extension Fruit and Vegetable News. 176 views in 2021.

M. Schuh. Don't fall into the Japanese beetle trapping trap, 2021. UMN Extension Yard and Garden News. Republished by Cannon Falls Beacon. 25,653 views in 2021.

Hoidal, N. and M. Schuh. 2021 Considerations: Optimizing Onions, 2021 UMN Extension Fruit and Vegetable News. Republished by The Drummer. 539 views in 2021.

Hoidal, N. and M. Schuh. 2021 Considerations: Brassica Bonanza, 2021 UMN Extension Fruit and Vegetable News. 268 views in 2021.

Hoidal, N. and M. Schuh. 2021 Considerations: Preparing for Pumpkins and Squash, 2021 UMN Extension Fruit and Vegetable News. 673 views in 2021.

M. Schuh. Snug as a bug in a pile of leaves? How insects spend the winter, 2021. University of Minnesota Extension Yard and Garden News. 1,040 views in 2021.

Hoidal, N. and M. Schuh. 2021 Considerations: Tomato Time, 2021 UMN Extension Fruit and Vegetable News. 479 views in 2021.

M. Schuh. 2021 Planning: Resources for Vegetable Variety Selection, 2021 UMN Extension Fruit and Vegetable News. 280 views in 2021.

Hoidal, N. and M. Schuh. 2021 Planning: Cucumber Considerations, 2021 UMN Extension Fruit and Vegetable News. 387 views in 2021.

Webinars

INTEGRATED PEST MANAGEMENT ACADEMY: The Desire to Learn Integrated Pest Management (IPM) Academy is an interactive, online program designed to provide a comprehensive and convenient online learning experience. Current topics include an introduction to IPM, plant science, soils 101, natural enemies, conserving pollinators, Enviroweather and scouting.

PESTICIDE APPLICATOR TRAINING: This course is designed for those who are studying to take the Michigan Department of Agriculture and Rural Development (MDARD) Restricted Use Pesticide (RUP) Exam or for those who need a refresher on safe pesticide handling. The course material follows the National Pesticide Core Manual. Those who complete the course can receive 12 RUP credits.

Summer series, live or recorded

- Bine and Dine Hop Zoom
- Chestnut Lunch Webinar Series
- Field Crops Virtual Breakfast

2021 Soybean Gall Midge Webinar series. <https://soybeangallmidge.org/soybean-gall-midge-series-videos>

Webinar 14th Annual Canola Research Conference, Virtual due to COVID. Nov. 5, 2020. Total audience = 40 people.

NDSU / UM Commercial Pesticide Applicator Training at Fargo, Virtual due to COVID. Dec. 2, 2020. Total audience = >280 people.

Webinar 23rd Annual Canola Expo, Virtual due to COVID. Dec. 8, 2020. Total audience = 40 people.

Webinar Great Montana Ag Rally, Virtual due to COVID. Jan. 5, 2021. Total audience = 40 people.

Webinar National Sunflower Association Research Forum, Virtual due to COVID. Jan. 13, 2021. Total audience = 108 people.

Webinar Sunflower University NuSeed, Virtual due to COVID. Jan. 21, 2021. Total audience = 350 people.

Webinar Best of the Best in Wheat and Soybean Research, Virtual due to COVID. Jan. 25, 2021. Total audience = 330 people.

Webinar: 2021 Dry Bean: Getting It Right, Virtual due to COVID. Feb. 2, 2021. Total audience = 129 people.

Webinar 2021 Best of the Best in Wheat Research and Marketing for Western North Dakota, Virtual due to COVID. Feb. 11, 2021. Total audience = 101 people.

Virtual Getting It Right Soybean Production, Virtual due to COVID. Feb. 17, 2021. Total audience = 184 people.

Virtual Centrol Roundtable meeting, Virtual due to COVID. March 4, 2021. Total audience = 49 people.

2021 Western Crop & Pest Management School, Fargo, ND. Canceled due to COVID.

2021 Western Crop and Pest Management School, Virtual due to COVID. March 10, 2021. Total audience = 61 people.

Virtual Canola Getting It Right, Virtual due to COVID. March 16, 2021. Total audience = 117 people.

Webinar Field to Fork 2020, Virtual due to COVID. March 24, 2021. Total audience = 108 people.

Webinar NCERA 222 Annual Meeting, Virtual due to COVID. March 24, 2021. Total audience = 32 people.

Webinar Spring Fever Gardening Forums, Virtual due to COVID. April 5, 2021. Total audience = 600 people.

Good Bugs Webinar Series, Virtual due to COVID. June 23, 2021. Total audience = 61 people.

Wheat Quality Tour Training Session, Virtual due to COVID. July 26, 2021. Total audience = 80 people.

Webinar International Ukraine Agricultural Crops Production Council on Wheat Pest Management, Æ, Sept. 10, 2020. Total audience = 20 companies with over 50 participants.

Webinar International Ukraine Agricultural Crops Production Council on " Corn Pest Management, Æ, Nov. 23, 2020. Total audience = 35 companies with over 200 participates

Webinar International Ukraine Agricultural Crops Production Council on " Canola Pest Management, Æ, Dec. 18, 2020. Total audience = 35 companies with over 300 participates

Webinar International Ukraine Agricultural Crop Production Council on "Sunflower Insect Pest Management", Jan. 22, 2021. Total audience = 500

Garden Hour webinar series 2021. https://hnr.k-state.edu/extension/info-center/k-state-garden-hour-webinar-series/k_state_garden_hour.html

Take Action Weed Science Webinar Series (7 webinars from 6 states)

Statewide Virtual EMG Basic Training- Insect ID and Control". (October 2021).

"Small Farm Education Field Day and Webinar Series". (August 2021).

Emerald Ash Borer University Webinar Series (10 sessions in 2021).

Purdue Landscape Report Webinar Q&A(6 sessions in 2021)

Laura Ingwell, Elizabeth Long Purdue Vegetable farming webinar series

Laura Ingwell, Elizabeth Long Purdue Statewide farming webinar series

NCIPM Center Pests and Progress Webinar: <https://www.ncipmc.org/projects/pests-and-progress-webinars/>

Jasinski, J. 2021. Mustard biofumigation on Pumpkins for OPGMA.

The following 4 webinars are all pollinator health related.

- Ellesworth, D. 2021. Living Landscapes Speaker Series (5 sessions), 2777 registrants
- Ellesworth, D. 2021. Spring Authors webinar series (5 sessions), 2654
- Ellesworth, D. 2021. The Bee Course for Community Scientists (7 sessions), 3178
- Ellesworth, D. 2021. Pollinators in the City (5 sessions), 1529

Tilmon, K. J. 2021. Slug pest management in field crops. Michigan State University Field Crops Virtual Breakfast Series.

Tilmon, K. J. 2021. Soybean insect management. OSU Virtual Corn College and Soybean School. February 11, 2021.

Tilmon, K. J. 2021. Insecticidal seed treatments ,À back to basics. TMK Bakersville Winter Learning Series. Virtual series, February 2021.

Tilmon, K. J. 2021. Asiatic garden beetle and soybean gall midge. OSU online pesticide recertification course. 972 views.

Tilmon, K. J. 2021. Insecticidal seed treatments: What you can and can,Àôt expect. OSU online pesticide recertification course. 727 views.

Gardiner, M.M. Vacant land: an undervalued resource for urban bees. Hosted by the Ohio State Beekeepers Association (11/8/21)
https://www.youtube.com/results?search_query=Mary+Gardiner. 167 Views

Gardiner, M.M. A growing conservation focus for shirking cities: Vacant land as bee habitat. Hosted by Connecticut Beekeepers Association (10/26/21)

Bradley: Non-conventional Weed Management Tools ,Äi Take Action, Inside Weed Management, A Series ,Äi February 25, 2021

Bish: Temperature Inversions and Herbicide-Drift ,Äi Take Action,Äôs ,ÄúInside Weed Management,Äù Series ,Äi April 13, 2021

Miller: 2021 NCIPM Pest and Progress of MU IPM

Bissonnette: MO-KY Soybean Cyst Nematode Webinar Series - February 2021

[MN]

HAFA Grower Training Series. IPM Decisions and When to Spray. HAFA. 14 attendees. 2/11/2021

Master Gardener Core Course. Master Gardener Core Course: Plant Pathology. UMN Extension. 252 attendees. 2/18/2021

Master Gardener Core Course. Master Gardener Core Course: Entomology. UMN Extension. 240 attendees. 6/24/2021

Washington County MG Meeting. IPM review and Hot Bug Topics. Washington County Master Gardeners. 71 attendees. 7/13/2021

Organic Management Field Day. Basics of Plant Disease. UMN Extension. ~30 attendees. 9/7/2021

Sustainable Food Systems Class. IPM: What is it and how to Practice it. Fond du Lac Tribal and Community College. 5 attendees. 9/9/2021

Sustainable Food Systems Class. IPM Lab. Fond du Lac Tribal and Community College. 5 attendees. 10/19/2021

Ramsey County Master Gardener Meeting. 2021 Garden Pests in Review. Ramsey County Master Gardeners. 87 attendees. 11/1/2021

Pumpkin grower field day at the Minnesota Landscape Arboretum. Pumpkin Weed Control. University of Minnesota Extension. 25 attendees

Hanson, A. National 4-H Crop Scout competition. Sept. 9, 2021. Insect scouting and IPM section judge & instructor. 28 students from Kentucky, Indiana, Iowa, and Illinois.

McMechan, J. E. Hodgson, R. Wright, R. Koch, B. Potter, and T. Hunt. 2021. Midwest soybean gall midge discussion series (3 webinars): <https://extension.umn.edu/courses-and-events/midwest-soybean-gall-midge-discussion-series>

Strategic Farming: Field Notes 2021 webinars