

**JANET J. KNODEL**

***Professor and Extension Entomologist***

**North Dakota State University**

**Fargo, North Dakota 58108**

**E-mail: [janet.knodel@ndsu.edu](mailto:janet.knodel@ndsu.edu)**

**EDUCATION:**

**PhD**, Entomology, North Dakota State University (2005)

**M.S.**, Entomology, Virginia Polytechnic Institute and State University

**B.S.**, Zoology, North Dakota State University

**PROFESSIONAL EXPERIENCE:**

- Department of Plant Pathology / Department of Entomology, NDSU Nov 2005-present  
*Professor and Extension Entomologist (2018-present)*  
*Associate Professor with Tenure and Extension Entomologist (2012-2018)*  
*Assistant Professor and Extension Entomologist (2005-2012)*
- North Central Research Extension Center, NDSU January 1998-Nov 2005  
*Extension Crop Protection Specialist*  
*Adjunct faculty status in the Department of Entomology, NDSU, Fargo*
- IPM Support Group, Cornell University, NYSAES September 1985-January 1998  
*Senior Extension Associate, Biological Monitoring Coordinator*
- Finger Lakes Community College, Canandaigua, New York January-May 1991  
*Adjunct Assistant Professor*
- Florist and Nursery Crops Laboratory, USDA-ARS, and January 1984-August 1985  
Department of Entomology, University of Maryland  
*Faculty Research Assistant*

**SUMMARY:**

- Leadership in extension entomology programming in the state, region and U.S. with emphasis on field crops grown in the Upper Great Plains.
- Over 22 years of experience in extension outreach and leading applied research on IPM strategies for insect pests of agricultural crops grown in North Dakota including canola, corn, dry beans, potato, pulse crops, soybean, spring wheat, sunflower.
- PI and Coordinator of the Integrated Pest Management (IPM) Crop Survey Program of North Dakota, wheat midge soil survey, flea beetle survey in canola, invasive midge survey in canola, corn insect trapping network and the Dry Bean Grower Survey of Production, Pest Problems and Pesticide Use in Minnesota and North Dakota.
- Coordinator and co-editor of the NDSU Extension Service *Crop & Pest Report* (<http://www.ag.ndsu.edu/cpr/>).

**HONORS: (last 3 years only)**

- 2021** Certificate of Appreciation as an invited speaker in the Ukraine Agricultural Crop Production Council on Sunflower Insect Pest Management, Jan. 20-22, 2021.
- 2020** Certificate of Appreciation as an invited speaker in the Ukraine Agricultural Crop Production Council on Canola Insect Pest Management, Dec. 16-17, 2020.
- 2020** Certificate of Appreciation as an invited speaker in the Ukraine Agricultural Crop Production Council on Corn Insect Pest Management, Nov. 18-23, 2020.
- 2020** Certificate of Appreciation as an invited speaker in the Ukraine Agricultural Crop Production Council on Wheat Insect Pest Management, Sept. 10-11, 2020.
- 2018** IPM Team Award for outstanding contributions to IPM through teamwork, Soybean Aphid Resistance Management Team, Sponsored by Corteva Agriscience, 2018 ESA, ESC and ESCB Joint Annual Meeting, Nov. 11-14, 2018.
- 2018** International IPM Award of EXCELLENCE Award for the *North Central Soybean Entomology Research and Extension Team* from The 9th International IPM Symposium Awards Committee, March 19, 2018, Baltimore, MD, USA.

**WEB-RELATED:**

Extension Entomology website: <http://www.ag.ndsu.edu/extensionentomology/>

Extension IPM website: <https://www.ag.ndsu.edu/ndipm>

**REFEREED PUBLICATIONS: (selected publications from 2019-2020)**

- Calles-Torrez, V., M.A. Boetel, and J.J. Knodel. 2020. Corn rootworm survey in North Dakota and a comparison of two sticky traps. *Journal of Applied Entomology*, 14pp. <https://doi.org/10.1111/jen.12826>
- Koch, R. L., B.D. Potter, J. Moisan-De Serres, J. Knodel, V. Calles-Torrez, J. Gavloski, T. Cira, M. Bartz, and R. Gagné. 2020. *Karshomyia caulicola* (Diptera: Cecidomyiidae) associated with Sclerotinia-infected soybean in the United State and Canada. *The Great Lakes Entomologist* 53(1): 59-63.
- Calles-Torrez, V., J.J. Knodel, M.A. Boetel, B.W. French, B.W. Fuller, and J.K. Ransom. 2019. Field-Evolved Resistance of Northern and Western Corn Rootworm (Coleoptera: Chrysomelidae) Populations to Corn Hybrids Expressing Single and Pyramided Cry3Bb1 and Cry34/35Ab1 Bt Proteins in North Dakota. *J. Econ. Entomol.* 112(4): 1875-1886. <https://doi.org/10.1093/jee/toz111>
- Menger, J., P. Beauzay, A. Chirumamilla, C. Dierks, J. Gavloski, P. Glogoza, K. Hamilton, E.W. Hodgson, J.J. Knodel, I.V. MacRae, D.T. Pezzini, B.D. Potter, A.J. Varenhorst and R.L. Koch. 2020. Implementation of a diagnostic-concentration bioassay for detection of susceptibility to pyrethroids in soybean aphid (Hemiptera: Aphididae). *JEE*: 1-8. <https://doi.org/10.1093/jee/toz351>
- Royer, T.A. and J.J. Knodel. 2019. Sunflower moth (Lepidoptera: Pyralidae) Biology, Ecology, and Management. *JIPM* 10(1): 12; 1-8. <https://doi.org/10.1093/jipm/pmz024>
- Calles-Torrez, V., J.J. Knodel, M.A. Boetel, B.W. French, B.W. Fuller, and J.K. Ransom. 2019. Field-Evolved Resistance of Northern and Western Corn Rootworm (Coleoptera: Chrysomelidae) Populations to Corn Hybrids Expressing Single and Pyramided Cry3Bb1 and Cry34/35Ab1 Bt Proteins in North Dakota. *J. Econ. Entomol.* 112(4): 1875-1886. <https://doi.org/10.1093/jee/toz111>
- Bjerke, J., B. Caldbeck, B. Coleman, D. Crowder, C. Dalley, D. Epstein, J. Gunter, C. Hiatt, S. Hoover, J. Knodel, B. Nelson, R. Olsson, T. Royer, D. Thorenson, T. Steeger and R. Verhoek. 2019. Best Management Practices (BMPS) for Pollinator Protection in Canola Fields. U.S. Canola Association. Developed in partnership with the Honey Bee Health Coalition. 22 pp.  
[https://honeybeehealthcoalition.org/wp-content/uploads/2019/03/HBHC\\_Canola\\_030119.pdf](https://honeybeehealthcoalition.org/wp-content/uploads/2019/03/HBHC_Canola_030119.pdf)
- Pezzini, D.T., C.D. DiFonzo, D.L. Finke, T.E. Hunt, J.J. Knodel, C.H. Krupke, B. McCornack, A.P. Michel, C.R. Philips, A.J. Varenhorst, R.J. Wright and R.L. Koch. 2019. Community composition, abundance and phenology of stink bugs (Hemiptera: Pentatomidae) in soybean in the North Central Region of the U.S. *J. Econ. Entomol.* <https://doi.org/10.1093/jee/toz099>

**EXTENSION PUBLICATIONS: (selected publications from 2019 -2020)**

- Knodel, J.J., P. Beauzay, M.A. Boetel, T.J. Prochaska and A. Chirumamilla. 2020. 2021 North Dakota Field Crop Insect Management Guide E1143 (revised). NDSU Ext., Fargo, ND.
- Calles-Torrez, V., P.B. Beauzay, A.H. Knudson and J.J. Knodel. 2020. Soybean Gall Midge and White-mold Gall Midge in Soybean E2006. NDSU Extension, Fargo, ND.
- Calles-Torrez, V. and J.J. Knodel. 2020. Common Arthropod Pests of Corn E2004. NDSU Extension, Fargo, ND.
- Knodel, J.J. and V. Calles-Torrez, V. 2020. Common Arthropod Pests of Soybean E2005. NDSU Extension, Fargo, ND.
- Knodel, J., P. Beauzay, and A. Chirumamilla. 2020. IPM – Insect Pest Management. *In* Sunflower Production A1331 (revised). H. Kandel (*editor*), NDSU Ext., Fargo, ND.
- Lowenstein, D.L., N. Walton, P. Beauzay, V. Calles-Torrez, G. Fauske, E. McGinnis and J. Knodel. 2020. Meet the Rare, Threatened and Endangered Insect Pollinators of North Dakota E1977. NDSU Ext., Fargo, ND.
- Calles-Torrez, V., E. McGinnis, B. Laschkewitsch, H. Hatterman-Valenti and J. Knodel. 2020. Pollinator Preferences for Selected Aster, False Indigo, Bee Balm and Sedum Flowers in North Dakota H1962. NDSU Ext., Fargo, ND.
- Knodel, J.J., J.M. Fauske and E.E. McGinnis. 2019. Butterfly gardening in North Dakota E1266 (revised). NDSU Ext., Fargo, ND.
- Knodel, J.J. and J.R. Prasifka. 2019. Banded sunflower moth E823 (revised). NDSU Ext., Fargo, ND.
- Koch, R., E. Hodgson, J. Knodel and A. Varenhorst. 2019. Management of Insecticide-resistant Soybean Aphids E1878 (revised). Multistate publication with University of Minnesota Extension, Iowa State University Extension and Outreach, NDSU Extension and SDSU Extension, Sept. 2019.
- Knodel, J.J. and P. Beauzay. 2019. Insect pest management. *In* Canola Production Field Guide A-1280 (revised). H. Kandel, L. Lubenow, C. Keene and J. Knodel (*editors*), NDSU Ext., Fargo, ND.
- Knodel, J.J. and P. Beauzay. 2019. Insect pests. *In* Pulse Crop Production Field Guide for North Dakota A-1922. H. Kandel and G. Endres (*editors*), NDSU Ext., Fargo, ND.
- Knodel, J.J. 2019. Insect management in soybean. *In* Soybean Production Field Guide for North Dakota. A-1172 (revised). H. Kandel and G. Endres (*editors*), NDSU Ext., Fargo, ND.
- Knodel, J.J. and V. Calles-Torrez. 2019. Insect Control. *In* Basics of Corn Production in North Dakota A834 (revised). J. Ransom (*editor*), NDSU Ext., Fargo, ND.