

CURRICULUM VITAE

University of Idaho

NAME: Erik J. Wenninger

DATE: 22 December 2023

RANK OR TITLE: Professor

DEPARTMENT: Entomology, Plant Pathology & Nematology

OFFICE LOCATION:

Kimberly Research & Extension Center
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WEB:

DATE OF FIRST EMPLOYMENT AT UI: 5 Jan 2009

DATE OF TENURE: 1 Jul 2015

DATE OF PRESENT RANK OR TITLE: 1 Jul 2021

EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Ph.D. Entomology, University of Massachusetts, Amherst, MA, September 2005

M.S. Biology (Ecology focus), Idaho State University, Pocatello, ID, August 2001

B.S. Biology, University of Toledo, Toledo, OH, May 1999

Certificates and Licenses:

Idaho Professional Pesticide Applicator License

EXPERIENCE:

Teaching, Extension, and Research Appointments:

January 2009 – present, Research and Extension Entomologist, University of Idaho, Department of Entomology, Plant Pathology, and Nematology, Kimberly, ID

- 2022 – present, Integrated Pest Management Coordinator
- 2021 – present, Professor
- 2015 – 2021, Associate Professor
- 2009 – 2015, Assistant Professor

May 2008 – December 2008, Postdoctoral Research Associate, Yakima Agricultural Research Laboratory, USDA-ARS, Wapato, WA

July 2006 – May 2008, Postdoctoral Research Associate, U.S. Horticultural Research Laboratory, USDA-ARS, Fort Pierce, FL

June 2005 – June 2006, Research Associate / Postdoctoral Research Associate, Oregon State University, Corvallis, OR and Hermiston, OR

Sept 2002 – Sept 2005, Research Assistant, Graduate Student, University of Massachusetts, Department of Entomology, Amherst, MA

May 1999 – Aug 2001, Research Assistant / Teaching Assistant, Graduate Student, Idaho State University, Department of Biological Sciences, Pocatello, ID

Academic Administrative Appointments:

Non-Academic Employment including Armed Forces:

Consulting:

TEACHING ACCOMPLISHMENTS:

Areas of Specialization:

Courses Taught:

Potato Science, PLSC 490, University of Idaho, Fall 2023 (one lecture: “Insect Identification, Scouting, and Management”)

Potato Science, PLSC 490, University of Idaho, Fall 2021 (one lecture: “Insect Identification, Scouting, and Management”)

Potato Science, PLSC 490, University of Idaho, Spring 2018 (one lecture: “Insect Identification, Scouting, and Management”)

Potato Science, PLSC 490, University of Idaho, Spring 2016 (one lecture: “Insect Identification, Scouting, and Management”)

Potato Science, PLSC 490, University of Idaho, Spring 2014 (one lecture: “Insect Identification, Scouting, and Management”)

Potato Science, PLSC 490, University of Idaho, Spring 2012 (one lecture: “Insect Identification, Scouting, and Management”)

General Ecology Laboratory, BIOS 209, Idaho State University, Fall 2000 (two sections)

Concepts in Biology: Human Concerns Laboratory, BIOL 100, Idaho State University, Spring 2000 (two sections)

Concepts in Biology: Human Concerns Laboratory, BIOL 100, Idaho State University, Fall 1999 (two sections)

Students Advised:

Undergraduate Students:

Mason Harper, INBRE intern, 2023
Kenzie Miller, INBRE intern, 2022
Audrey Howe, INBRE intern, 2021
Marissa Steiner, INBRE intern, 2019
Jessica Kohntopp, summer intern, 2018
Raegan Bowyer, high school senior project intern, 2018
Reagan Haney, INBRE intern, 2017
Eisa Sobbi, INBRE intern, 2016

Graduate Students:

Advised to completion of degree, major professor:

Austin Fife, M.S. Entomology, 2018
Tucker Daley, M.S. Entomology, 2017
Shaonpius Mondal, Ph.D. Entomology, 2014
Deepak Shrestha, M.S. Entomology, 2012
Kristin Daku, M.S. Entomology, 2012

Served on graduate committee:

Regina Karin Cruzado, Ph.D. Entomology, 2019
Kaitlin Rim, M.S. Entomology (Utah State University), 2019

In progress:

Apekshya Senchuri, M.S. candidate

Kelie Yoho, Ph.D. candidate

Beck Akhiwu, Ph.D. candidate

Lisa Tran, Ph.D. candidate (committee member)

Anwar Bushnaq, Ph.D. candidate (committee member)

Materials Developed:

Courses Developed:

Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:

Honors and Awards:

SCHOLARSHIP ACCOMPLISHMENTS:

Publications, Exhibitions, Performances, Recitals:

Refereed/Adjudicated: (books, book chapters, proceedings, abstracts)

Rashed, A. and **E.J. Wenninger**. 2023. Advances in managing wireworms in cereal crops, challenges, and future directions. *In Advances in Understanding Insect Pests Affecting Wheat and Other Cereals* (eds. S. Eigenbrode and A. Rashed). Burleigh Dodds Science Publishing.

Wenninger, E.J. and A. Rashed. 2022. Psyllids. *In Insect Pests of Potato, 2nd Ed.* (eds. A. Alyohkin, S. Rondon, and Y. Gao). P. 616. Elsevier, Amsterdam.

Alyohkin, A., **E.J. Wenninger**, and A. Jensen. 2022. Aphids. *In Insect Pests of Potato, 2nd Ed.* (eds. A. Alyohkin, S. Rondon, and Y. Gao). P. 616. Elsevier, Amsterdam.

Wenninger, E.J., A. Rashed, S.I. Rondon, A. Alyokhin, and J.M. Alvarez. 2020. Insect pests and their management. pp. 283-345. *In Potato Production Systems* (eds. Stark, J.C., Thornton, M., and Nolte, P.). P. 636. Springer Nature Switzerland.

Moore, A., D. Sullivan, N. Olsen, P. Hutchinson, P. Wharton, and **E.J. Wenninger**. 2020. Organic potato production. pp. 101-134. *In Potato Production Systems* (eds. Stark, J.C., Thornton, M., and Nolte, P.). P. 636. Springer Nature Switzerland.

Rethwisch, M.D., F. Peairs, J. Pierce, A. Mostafa, S. Price, R. Ramirez, S. Rondon, S. Schell, J. Vardiman, D.B. Walsh, K. Wanner, and **E.**

Wenninger. 2019. Insecticide Resistance in alfalfa weevil and related implications in other alfalfa insect pests. *In* Proceedings, 2019 Western Alfalfa and Forage Symposium, pp. 45-52, Reno, NV, Nov.19 – 21, 2019. UC Cooperative Extension, Plant Sciences Department, University of California, Davis, CA 95616.

Price, W.J., **E.J. Wenninger**, and B. Shafii. 2018. Modeling potato psyllid occurrence using sticky trap data for the management of zebra chip disease. Conference on Applied Statistics in Agriculture, 29th Annual Conference Proceedings. Kansas State University Libraries, New Prairie Press. <https://doi.org/10.4148/2475-7772.1522>

Wenninger, E.J. 2017. Oriental beetle. *In* Compendium of Blueberry, Cranberry, and Lingonberry Diseases and Pests, Second Edition. Edited by James J. Polashock, Frank L. Caruso, Anne L. Averill, and Annemiek C. Schilder. The American Phytopathological Society (APS) Press, St. Paul, MN, USA.

Refereed/Adjudicated (currently scheduled or submitted):

Peer Reviewed/Evaluated:

Wenninger, E.J. and A. Rashed. 2024. Biology, ecology, and management of the potato psyllid, *Bactericera cockerelli* (Hemiptera: Trioziidae), and zebra chip disease in potato. Annual Review of Entomology (in press).

Strausbaugh, C.A., **E.J. Wenninger**, L. Jackson, and E. Vincill. 2023. Curly top viruses and phytoplasmas in sugar beets, common beans, and beet leafhoppers along with vector population dynamics in Southern Idaho. PhytoFrontiers (in press).

Prager, S.M., A. Cohen, W.R. Cooper, R. Novy, A. Rashed, **E.J. Wenninger**, and C. Wallis. 2022. A comprehensive review of zebra chip disease in potato and its management through breeding for resistance/tolerance to '*Candidatus Liberibacter solanacearum*' and its insect vector. Pest Management Science 78, 3731-3745.

Dahan, J., Y.I. Wolf, G.E. Orellana, **E.J. Wenninger**, E.V. Koonin, and A.V. Karasev. 2022. A novel flavi-like virus in alfalfa (*Medicago sativa* L.) crops along the Snake River Valley. Viruses 14, 1320. <https://doi.org/10.3390/v14061320>

Cruzado-Gutiérrez, R.K., R. Sadeghi, S.M. Prager, C.L. Casteel, J. Parker, **E.J. Wenninger**, W.J. Price, N.A. Bosque-Pérez, A.V. Karasev, and A. Rashed. 2021. Interspecific interactions within a vector-borne complex are influenced by a co-occurring pathosystem. Scientific Reports 11(1): 2242. <https://doi.org/10.1038/s41598-021-81710-w>

Dahan, J., **E.J. Wenninger**, M. Thornton, C.A. Reyes-Corral, N. Olsen, and A.V. Karasev. 2021. Haplotyping the potato psyllid (Hemiptera: Trioziidae), and the associated pathogenic bacterium '*Candidatus Liberibacter solanacearum*' in non-crop alternative hosts in Southern Idaho. Environmental Entomology 50: 382–389. <https://doi.org/10.1093/ee/nvaa179>

- Fu, Z., A.R. Meier, B. Epstein, A.O. Bergland, C.I. Castillo Carrillo, W.R. Cooper, D.W. Crowder, D.R. Horton, A.S. Jensen, J.L. Kelley, A. Rashed, S.R. Reitz, S.I. Rondon, J. Thinakaran, **E.J. Wenninger**, C.H. Wohleb, and W.E. Snyder. 2020. Host plants and *Wolbachia* shape the population genetics of herbivore populations. *Evolutionary Applications* 13: 2740–2753.
- Cruzado, R.K., M. Rashidi, N. Olsen, R.G. Novy, **E.J. Wenninger**, N.A. Bosque-Pérez, A.V. Karasev, W.J. Price, and A. Rashed. 2020. Effect of the level of “*Candidatus Liberibacter solanacearum*” infection on the development of zebra chip disease in different potato genotypes at harvest and post storage. *PLoS ONE* 15(4): e0231973.
- Wenninger, E.J.** and S.D. Eigenbrode. 2020. Optimizing a pheromone lure for the sugar beet root maggot fly, *Tetanops myopaeformis* (Diptera: Ulidiidae). *Entomologia Experimentalis et Applicata* <https://doi.org/10.1111/eea.12939> [Featured as Editor’s Choice paper, September 2020]
- Wenninger, E.J.**, N. Olsen, J. Lojewski, P. Wharton, J. Dahan, A. Rashed, and A.V. Karasev. 2020. Effects of potato psyllid vector density and time of infection on zebra chip disease development after harvest and during storage. *American Journal of Potato Research* <https://doi.org/10.1007/s12230-020-09772-6> [Outstanding Paper Award, Plant Protection Section, 2020]
- Gutiérrez Illán, J., E.H. Bloom, C.H. Wohleb, **E.J. Wenninger**, S.I. Rondon, A.S. Jensen, W.E. Snyder, and D.W. Crowder. 2020. Landscape structure and climate drive population dynamics of an insect vector within intensely managed agroecosystems. *Ecological Applications*, 30(5): e02109.
- Fife, A.N., K. Cruzado, R. Novy, A. Rashed, and **E.J. Wenninger**. 2020. Potato psyllid (Hemiptera: Trioziidae) behavior on three potato genotypes with tolerance to ‘*Candidatus Liberibacter solanacearum*.’ *Journal of Insect Science* 20(2): 15; 1–10. doi: 10.1093/jisesa/ieaa020
- Wenninger, E.J.**, J.R. Vogt, J. Lojewski, O.T. Neher, D.W. Morishita, and K.E. Daku. 2019. Effects of strip tillage in sugar beet on density and richness of predatory arthropods. *Environmental Entomology* 49: 33–48. doi: 10.1093/ee/nvz135
- Wenninger, E.J.**, J.A. Lojewski, J.R. Vogt, D.W. Morishita, O.T. Neher, and K.E. Daku. 2019. Effects of strip tillage and irrigation rate on sugar beet crop yield and incidence of insect pests, weeds, and disease. *Journal of Sugar Beet Research* 56: 79-110.
- Lojewski, J.A. and **E.J. Wenninger**. 2019. Comparison of two different statistical methods for assessing insecticide efficacy in small plot trials targeting wireworms, *Limoniuss californicus* (Mannerheim) (Coleoptera: Elateridae), in potato. *American Journal of Potato Research* 96: 578-587.
- Rim, K., S.J. Price, **E.J. Wenninger**, R. Long, R.A. Ramirez. 2019. Biology and management of clover root curculio (Coleoptera: Curculionidae). *Journal of Integrated Pest Management* 10(1): 23; 1-14.

- Dahan, J., **E.J. Wenninger**, B.D. Thompson, S. Eid, N. Olsen, and A.V. Karasev. 2019. Prevalence of “*Candidatus Liberibacter solanacearum*” haplotypes in potato tubers and psyllid vectors in Idaho from 2012 to 2018. *Plant Disease* <https://doi.org/10.1094/PDIS-11-18-2113-RE>
- Wenninger, E.J.**, J. Dahan, M. Thornton, and A.V. Karasev. 2019. Associations of the potato psyllid and “*Candidatus Liberibacter solanacearum*” in Idaho with the non-crop host plants bittersweet nightshade and field bindweed. *Environmental Entomology* nvz033, <https://doi.org/10.1093/ee/nvz033>
- Daley, T.B. and **E.J. Wenninger**. 2018. Screening for resistance against the sugar beet root maggot, *Tetanops myopaeformis* (Diptera: Ulidiidae), using a greenhouse bioassay. *Journal of Insect Science* 18(3): 11. doi:10.1093/jisesa/iey051
- Wenninger, E.J.**, A. Carroll, J. Dahan, A.V. Karasev, M. Thornton, J. Miller, P. Nolte, N. Olsen, and W. Price. 2017. Phenology of the potato psyllid, *Bactericera cockerelli* (Hemiptera: Triozidae), and “*Candidatus Liberibacter solanacearum*” in commercial potato fields in Idaho. *Environmental Entomology* 46: 1179-1188.
- Mondal, S. **E.J. Wenninger**, P.J.S. Hutchinson, J.L. Whitworth, D. Shrestha, S.D. Eigenbrode, N.A. Bosque-Pérez, and W.E. Snyder. 2017. Responses of aphid vectors of *Potato leaf roll virus* to potato varieties. *Plant Disease* 10:1812-1818.
- Wenninger, E.J.**, S.Y. Emmert, K. Tindall, H. Ding, M.A. Boetel, and S.D. Eigenbrode. 2017. Aggregation behavior and a putative aggregation pheromone in the sugar beet root maggot fly, *Tetanops myopaeformis*. *Journal of Insect Science* 17(1): 29; 1-9.
- Dahan, J., **E.J. Wenninger**, B. Thompson, S. Eid, N. Olsen, and A.V. Karasev. 2017. Relative abundance of potato psyllid haplotypes in potato fields in Southern Idaho during 2012 to 2015, and incidence of “*Candidatus Liberibacter solanacearum*” causing zebra chip disease. *Plant Disease* 101:822-829.
- Landolt, P., R.S. Zack, **E.J. Wenninger**, A.S. Jensen, and D.R. Hoover. 2017. *Hecatera dysodea* (Denis and Schiffermüller, 1775) (Lepidoptera: Noctuidae) new to the state of Idaho. *Pan-Pacific Entomologist* 93:1-6.
- Mondal, S., Y.-H. Lin, **E.J. Wenninger**, P.J.S. Hutchinson, J.L. Whitworth, S.D. Eigenbrode, N.A. Bosque-Pérez, and S. M. Gray. 2017. *Potato virus Y* transmission efficiency from different potato cultivars infected with single or multiple virus strains. *Phytopathology* 107:491-498.
- Mondal, S., **E.J. Wenninger**, P.J.S. Hutchinson, M.A. Weibe, S.D. Eigenbrode, and N.A. Bosque-Pérez. 2016. Contribution of noncolonizing aphids to *Potato virus Y* prevalence in potato in Idaho. *Environmental Entomology* 45:1445-1462.
- Strausbaugh, C.A., **E.J. Wenninger**, and I.A. Eujayl. 2016. Length of efficacy for control of curly top in sugar beet with seed and foliar insecticides. *Plant Disease* 100:1364-1370.
- Mondal, S., **E.J. Wenninger**, P.J.S. Hutchinson, J.L. Whitworth, D. Shrestha, S.D. Eigenbrode, and N.A. Bosque-Pérez. 2016. Comparison of transmission efficiency

- of different isolates of *Potato virus Y* among three aphid vectors. *Entomologia Experimentalis et Applicata* 158:258-268.
- Shrestha, D. **E.J. Wenninger**, P.J.S. Hutchinson, J.L. Whitworth, S. Mondal, S.D. Eigenbrode, and N.A. Bosque-Pérez. 2014. Interactions among potato genotypes, virus strains, and inoculation timing and methods in the *Potato virus Y* and green peach aphid pathosystem. *Environmental Entomology* 43:662-71.
- Swisher, K.D., V.G. Sengoda, J. Dixon, J.E. Munyaneza, A.F. Murphy, S.I. Rondon, B.T., **E.J. Wenninger**, N. Olsen, A.V. Karasev, and J.M. Crosslin. 2014. Assessing potato psyllid haplotypes in potato crops in the Pacific Northwestern United States. *American Journal of Potato Research* 91:485-491.
- Strausbaugh, C. A., **E.J. Wenninger**, and I.A. Eujayl. 2014. Control of curly top in sugar beet with seed and foliar insecticides. *Plant Disease* 98:1075-1080.
- Tiwari, S., N. Killiny, R.S. Mann, **E.J. Wenninger**, and L.L. Stelinski. 2013. Abdominal color of the Asian citrus psyllid, *Diaphorina citri*, is associated with susceptibility to various insecticides. *Pest Management Science* 69:535-541.
- Strausbaugh, C.A., **E.J. Wenninger**, and I.A. Eujayl. 2012. Management of severe curly top in sugar beet with insecticides. *Plant Disease* 96:1159-1164.
- Wenninger, E.J.** and P.J. Landolt. 2011. Apple and sugar feeding in adult codling moths: effects on longevity, fecundity, and egg fertility. *Journal of Insect Science* 11(161):1-11.
- Hall, D.G., **E.J. Wenninger**, and M.G. Hentz. 2011. Temperature studies with the Asian citrus psyllid, *Diaphorina citri*: cold hardiness and temperature thresholds for oviposition. *Journal of Insect Science* 11:83 available online: insectscience.org/11.83.
- Wenninger, E.J.**, L.L. Stelinski, and D.G. Hall. 2009. The roles of olfactory and visual cues in host location in *Diaphorina citri* (Hemiptera: Psyllidae). *Environmental Entomology* 38:225-234.
- Wenninger, E.J.**, L.L. Stelinski, and D.G. Hall. 2009. Relationships between adult abdominal color and reproductive potential in *Diaphorina citri* (Hemiptera: Psyllidae). *Annals of the Entomological Society of America* 102:476-483.
- Wenninger, E.J.**, Hall, D.G., and R.W. Mankin. 2009. Vibrational communication between the sexes in *Diaphorina citri* (Hemiptera: Psyllidae). *Annals of the Entomological Society of America* 102:547-555.
- Wenninger, E.J.**, L.L. Stelinski, and D.G. Hall. 2008. Behavioral evidence for a female-produced sex attractant in *Diaphorina citri* Kuwayama (Hemiptera: Psyllidae). *Entomologia Experimentalis et Applicata* 128:450-459.

- Wenninger, E.J.** and D.G. Hall. 2008. Daily and seasonal patterns in abdominal color in *Diaphorina citri* (Hemiptera: Psyllidae). *Annals of the Entomological Society of America* 101:585-592.
- Wenninger, E.J.** and D.G. Hall. 2008. Importance of multiple mating to female reproductive output in *Diaphorina citri* (Hemiptera: Psyllidae). *Physiological Entomology* 33:316-321.
- Wenninger, E.J.** and R.S. Inouye. 2008. Insect community response to plant diversity and productivity in a sagebrush-steppe ecosystem. *Journal of Arid Environments* 72:24-33.
- Wenninger, E.J.** and D.G. Hall. 2007. Daily timing of mating and age at reproductive maturity in *Diaphorina citri* (Hemiptera: Psyllidae). *Florida Entomologist* 90:715-722.
- Hall, D.G., S.L. Lapointe, and **E.J. Wenninger**. 2007. Effects of a particle film on biology and behavior of *Diaphorina citri* (Hemiptera: Psyllidae) and its infestations in citrus. *Journal of Economic Entomology* 100:847-854.
- Wenninger, E.J.** and A.L. Averill. 2006. Mating disruption of oriental beetle (Coleoptera: Scarabaeidae) in cranberry using retrievable, point-source dispensers of sex pheromone. *Environmental Entomology* 35:458-464.
- Wenninger, E.J.** and A.L. Averill. 2006. Effect of delayed mating on reproductive output of female oriental beetle *Anomala orientalis* (Coleoptera: Scarabaeidae). *Agricultural and Forest Entomology* 8:221-231.
- Wenninger, E.J.** and A.L. Averill. 2006. Influence of body and genital morphology on relative male fertilization success in the oriental beetle. *Behavioral Ecology* 17:656-663.
- Wenninger, E.J.** and W.F. Fagan. 2000. Effect of river flow manipulation on wolf spider assemblages at three desert riparian sites. *Journal of Arachnology* 28:115-122.

Peer Reviewed/Evaluated (currently scheduled or submitted):

- Hetherington, M.C., J. Brunet, D. Nieto, R.A. Ramirez, **E.J. Wenninger**, and C. Guédot. Electrophysiological and behavioral responses of *Lygus hesperus* Knight (Hemiptera: Miridae) to host plant volatiles. *Chemoecology* (in review).
- Wenninger, E.J.**, S.P. DeGrey, A. Alyokhin, E.R. Barnes, B. Bradford, R.L. Groves, J. Insinga, E. Knopf, B. Manley, J. Piaskowski. Responses of non-target arthropods to a dsRNA bioinsecticide and to conventional insecticides targeting the Colorado potato beetle, *Leptinotarsa decemlineata* (Say). *American Journal of Potato Research* (in prep.).

Other:

Peer-reviewed extension outputs:

- Schreiber, A., A. Jensen, S. Rondon, **E. Wenninger**, S. Reitz, and T. Waters. 2023. Integrated pest management guidelines for insects and mites in Idaho, Oregon and Washington potatoes. <https://www.nwpotatoresearch.com/item/pest-management-options>
- Olsen, N., A. Adjesiwor, R. Spear, M. Thornton, **E. Wenninger**, J. Miller, P. Wharton. 2022. Agronomics of leasing fields for potato production. *In* University of Idaho BUL 1038, 11 pp.
- Stokes, B.S. and **E.J. Wenninger**. 2022. Red Fire Bug – A New Idaho Invader? *In* University of Idaho BUL 1019.
- Schreiber, A., A. Jensen, S. Rondon, **E. Wenninger**, S. Reitz, and T. Waters. 2021. Integrated pest management guidelines for insects and mites in Idaho, Oregon and Washington potatoes.
- Thomas, J., K. Duellman, and **E.J. Wenninger**. 2021. Monitoring flying insects with a bucket trap [peer-reviewed video].
- Thomas, J. and **E.J. Wenninger**. 2021. Alfalfa insects: understanding the role of beneficial insects and pests [peer-reviewed video].
- Walsh, O., D. Morishita, **E. Wenninger**, J. Woodhall, and S. Shafian. 2020. Quick Facts – Idaho Beans. *In* University of Idaho BUL 978, 6 pp.
- Wenninger, E.J.**, T.B. Daley, O.T. Neher, and E.J. Bechinski. 2019. Sugar beet root maggot: identification, biology, and management. *In* University of Idaho BUL 942, 9 pp.
- Schreiber, A., A. Jensen, S. Rondon, **E. Wenninger**, S. Reitz, and T. Waters. 2019. Integrated pest management guidelines for insects and mites in Idaho, Oregon and Washington potatoes, <https://www.nwpotatoresearch.com/wp-content/uploads/2019/06/Northwest-Potato-Insect-Management-Guidelines-2019W-1.pdf>.
- Schreiber, A., A. Jensen, S.I. Rondon, **E.J. Wenninger**, and S. Reitz. 2018. Integrated Pest Management Guidelines for Insects and Mites in Idaho, Oregon and Washington Potatoes.
- Rondon, S., A. Schreiber, P. Hamm, N. Olsen, **E. Wenninger**, C. Wohleb, T. Waters, and R. Cooper. 2018. Potato psyllid vector of zebra chip disease in the Pacific Northwest: biology, ecology, and management. PNW 633.

Schreiber, A., A. Jensen, S. Rondon, and **E. Wenninger**. 2015. Integrated Pest Management Guidelines for Insects and Mites in Idaho, Oregon and Washington Potatoes.

Wenninger, E.J. and Glenn E. Shewmaker. 2014. Clover root curculio: identification, biology, and management. PNW 663.

Schreiber, A., A. Jensen, S. Rondon, and **Erik Wenninger**. 2014. Integrated Pest Management Guidelines for Insects and Mites in Idaho, Oregon and Washington Potatoes.

Rondon, S., A. Schreiber, A., Jensen, P. Hamm, J. Munyaneza, P. Nolte, N. Olsen, **E. Wenninger**, D. Henne, C. Wohleb, and T. Waters. 2012. Biology, ecology and management of the potato psyllid vector of zebra chip disease in the Pacific Northwest. PNW 633.

Wenninger, E.J. 2011. Sugar beet root aphid: identification, biology, and management. University of Idaho CIS 1176.

Miscellaneous extension outputs:

Strausbaugh, C.A., R. Majumdar, and **E. Wenninger**. 2024. Foliar and seed treatment insecticides for the control of curly top in Idaho sugar beet, 2023. Plant Disease Management Reports 18:0000, The American Phytopathological Society. (in press)

Wenninger, E.J. and A. Stanzak. 2023. Sugar beet pests. *In* 2023 Pacific Northwest Insect Management Handbook, Oregon State University.

Wenninger, E.J. and A. Stanzak. 2023. Pests of sugar beet grown for seed. *In* 2023 Pacific Northwest Insect Management Handbook, Oregon State University.

Wenninger, E.J. and A. Stanzak. 2023. Pests of table beet grown for seed. *In* 2023 Pacific Northwest Insect Management Handbook, Oregon State University.

Strausbaugh, C.A., Majumdar, R., and **Wenninger, E.** 2023. Foliar and seed treatment insecticides for the control of curly top in Idaho sugar beet, 2022. Plant Disease Management Reports 17:ST004, The American Phytopathological Society.

Wenninger, E.J. 2022. Sugar beet pests. *In* 2022 Pacific Northwest Insect Management Handbook, Oregon State University.

Wenninger, E.J. 2022. Pests of sugar beet grown for seed. *In* 2022 Pacific Northwest Insect Management Handbook, Oregon State University.

Wenninger, E.J. 2022. Pests of table beet grown for seed. *In* 2022 Pacific Northwest Insect Management Handbook, Oregon State University.

- Strausbaugh, C.A., and **Wenninger, E.** 2022. Foliar insecticides for the control of curly top in Idaho sugar beet, 2021. Plant Disease Management Reports 16:V036, The American Phytopathological Society.
- Wenninger, E.J.** 2021. Sugar beet pests. *In* 2021 Pacific Northwest Insect Management Handbook, Oregon State University.
- Wenninger, E.J.** 2021. Pests of sugar beet grown for seed. *In* 2021 Pacific Northwest Insect Management Handbook, Oregon State University.
- Wenninger, E.J.** 2021. Pests of table beet grown for seed. *In* 2021 Pacific Northwest Insect Management Handbook, Oregon State University.
- Strausbaugh, C.A., and **Wenninger, E.** 2021. Foliar insecticides for the control of curly top in Idaho sugar beet, 2020. Plant Disease Management Reports 15:V015, The American Phytopathological Society.
- Wenninger, E.J.** 2020. Sugar beet pests. *In* 2020 Pacific Northwest Insect Management Handbook, Oregon State University.
- Wenninger, E.J.** 2020. Pests of sugar beet grown for seed. *In* 2020 Pacific Northwest Insect Management Handbook, Oregon State University.
- Wenninger, E.J.** 2020. Pests of table beet grown for seed. *In* 2020 Pacific Northwest Insect Management Handbook, Oregon State University.
- Strausbaugh, C.A. and **E.J. Wenninger.** 2020. Foliar insecticides for the control of curly top in Idaho sugar beet, 2019. Plant Disease Management Reports 14:CF041, The American Phytopathological Society.
- Wenninger, E.J.** 2019. Proper use and deployment of yellow sticky cards to monitor potato psyllids [video]. https://www.youtube.com/watch?v=Bgj_7x9mf3M
- Wenninger, E.J.** 2019. Sugar beet pests. *In* 2019 Pacific Northwest Insect Management Handbook, Oregon State University.
- Wenninger, E.J.** 2019. Pests of sugar beet grown for seed. *In* 2019 Pacific Northwest Insect Management Handbook, Oregon State University.
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- Wenninger, E.J.** and **B. Akhiwu**. “Sugar beet root maggot best management practices.” Snake River Sugar Beet Conference. Burley, ID, December 2023.
- DeGrey, S.**, B. Manley, E. Barnes, and E.J. Wenninger. “Responses of beneficial arthropods to insecticide programs targeting Colorado potato beetle.” Pesticide Applicator Recertification Training. Twin Falls, ID. November 2023.
- DeGrey, S.**, B. Manley, E. Barnes, and E.J. Wenninger. “Responses of beneficial arthropods to insecticide programs targeting Colorado potato beetle.” Pesticide Applicator Recertification Training. Burley, ID. November 2023.
- Wenninger, E.J.**, **B. Akhiwu**, and **K. Yoho**. “Entomology program update.” Snake River Pest Management Field Day. Kimberly, ID, June 2023.
- Wenninger, E.J.** “Cultural control and ecosystem perspectives.” Biology of Vector-Borne Diseases workshop. Moscow, ID, June 2023.
- Wenninger, E.J.** “Management effects on vector behavior and fitness.” Biology of Vector-Borne Diseases workshop. Moscow, ID, June 2023.
- Wickwar, D.**, **J. Thomas**, **E.J. Wenninger**. “Extension Implementation Plan workshop.” University of Idaho Annual Extension Conference, Sun Valley, ID, April 2023.
- Wenninger, E.J.** “Managing ‘worms’ in sugar beet.” Amalgamated Sugar Ag Symposium, Boise, ID, March 2023.

- Wenninger, E.J., K. Duellman, J. Woodhall.** “Introducing the IPM Dashboard for monitoring pests in Idaho.” Idaho Potato Conference, Pocatello, ID, January 2023.
- Olsen, N., E. Wenninger, A. Adjesiwor, R. Spear, J. Miller, M. Thornton, P. Wharton.** “Agronomics of leasing land for potato production workshop.” Idaho Potato Conference, Pocatello, ID, January 2023.
- Wenninger, E.J.** “Potatoes 101 – Integrated Pest Management and insects.” Idaho Potato Conference, Pocatello, ID, January 2023.
- Wenninger, E.J.** “What’s left in the toolbox for sugar beet root maggot?” Snake River Sugar Beet Conference. Burley, ID, December 2022.
- Wenninger, E.J.** “Update on Kimberly potato entomology program.” Potato Pest Advisory Committee meeting. Virtual, November 2022.
- Wenninger, E.J.** “Challenges in chemical control and future alternatives.” Biology of Vector-Borne Diseases workshop. Moscow, ID (virtual), June 2022.
- Wenninger, E.J.** “Management effects on vector behavior and fitness.” Biology of Vector-Borne Diseases workshop. Moscow, ID (virtual), June 2022.
- Wenninger, E.J., K. Yoho, and B. Akhiwu.** “Entomology program update.” Snake River Pest Management Tour. Kimberly, ID, June 2022.
- Wenninger, E.J.** “Alternatives to chlorpyrifos for early season insect pests.” Sugar Beet Grower School, Twin Falls, ID, March 2022.
- Wenninger, E.J.** “Alternatives to chlorpyrifos for early season insect pests.” Amalgamated Sugar Ag Symposium, Boise, ID, March 2022.
- Wenninger, E.J.** “Targeted insecticide use to preserve beneficial insects.” Treasure Valley Bean School, Nampa, ID, January 2022.
- Wenninger, E.J.** “Targeted insecticide use to preserve beneficial insects.” Magic Valley Bean School, Twin Falls, ID, January 2022.
- Wenninger, E.J., M. Thornton, N. Olsen.** “Potatoes, pollinators, and pesticides: do they mix?” Idaho Potato Conference, Pocatello, ID, January 2022.
- Wenninger, E.J.** “Diagnosing injury from insects.” Idaho Potato Conference, Pocatello, ID, January 2022.
- Wenninger, E.J.** “Insecticide resistance” Idaho Potato Conference, Pocatello, ID, January 2022.
- Yoho, K. and E.J. Wenninger.** “Effects of crop oils on PVY incidence and beneficial insect communities in the PNW.” Idaho Seed Potato Seminar, Pocatello, ID, January 2022.
- Wenninger, E.J.** “Management of sugar beet root maggot.” Snake River Sugar Beet Conference. Virtual, December 2021.
- Wenninger, E.J.** “Kimberly entomology program overview.” Global Disease Ecology Course. Moscow, ID (virtual), October 2021.

- Wenninger, E.J., K. Yoho, and B. Akhiwu.** “Entomology program update.” Kimberly Research & Extension Center Field Day. Kimberly, ID, August 2021.
- Wenninger, E.J.** “Potato pest tour.” Bayer Field Day. Kimberly, ID, August 2021.
- Wenninger, E.J.** “Identification of common insects in sugar beet.” The Amalgamated Sugar Company Field Day. Paul, ID, July 2021.
- Wenninger, E.J.** “Identification of common insects in sugar beet.” The Amalgamated Sugar Company Field Day. Nampa, ID, July 2021.
- Wenninger, E.J.** “Changes in vector behavior and performance in response to infection in host plants: implications for disease management.” Biology of Vector-Borne Diseases workshop. Moscow, ID, June 2021.
- Wenninger, E.J.** “Management effects on vector behavior and fitness.” Biology of Vector-Borne Diseases workshop. Moscow, ID, June 2021.
- Wenninger, E.J.** “Update on Kimberly potato entomology program.” Potato Pest Advisory Committee meeting. Virtual, March 2021.
- Wenninger, E.J.** “Sugar beet entomology program update and research proposals.” Idaho Sugar Industry Proposal Review Meeting. Twin Falls, ID, February 2021.
- Strausbaugh, C. and **Wenninger, E.J.** “Curly top program update and research proposal.” Idaho Sugar Industry Proposal Review Meeting. Twin Falls, ID, February 2021.
- Wenninger, E.J.** “Potato entomology program update.” Seed Potato Advisory Group Meeting. Virtual, February 2021.
- Wenninger, E.J., J. Dahan, A. Karasev, J. Miller, J. Woodhall, K. Deulmann, and N. Olsen.** “What happened to zebra chip in Idaho?” Idaho Potato Conference, Virtual, January 2021.
- Wenninger, E.J.** “Kimberly entomology program update.” Aberdeen Pest Management Tour. Aberdeen, ID, July 2020.
- Wenninger, E.J.** “Potato entomology program update.” Seed Potato Advisory Group Meeting. Idaho Falls, ID, February 2020.
- Wenninger, E.J.** “Insecticide Rotation in Sugar Beet.” Sugar Beet Grower’s School. Twin Falls, ID, February 2020.
- Wenninger, E.J., J. Piaskowski, W. Price, and S.D. Eigenbrode** “Sugar beet entomology program update and research proposals.” Idaho Sugar Industry Proposal Review Meeting. Twin Falls, ID, February 2020.
- Wenninger, E.J.** “Mites, thrips, and green stink bugs in beans.” Treasure Valley Bean School. Nampa, ID, January 2020.
- Wenninger, E.J.** “Mites, thrips, and green stink bugs in beans.” Magic Valley Bean School. Twin Falls, ID, January 2020.

- Wenninger, E.J.**, J. Dahan, A. Karasev, J. Miller, J. Woodhall, K. Deulmann, and N. Olsen. "Potato psyllid and Liberibacter monitoring in Idaho." Idaho Potato Conference, Pocatello, ID, January 2020.
- Wenninger, E.J.**, A. Rashed, B. Stokes. "Major problems with minor pests?" Idaho Potato Conference, Pocatello, ID, January 2020.
- Wenninger, E.J.** "When insects attack! Seasonal timeline of insect pests in sugar beet." Snake River Sugar Beet Conference, Caldwell, ID, January 2020.
- Wenninger, E.J.** "When insects attack! Seasonal timeline of insect pests in sugar beet." Snake River Sugar Beet Conference, Burley, ID, December 2019.
- Wenninger, E.J.** "Kimberly entomology program tour." College of Southern Idaho class field trip, Kimberly, ID, October 2019.
- Wenninger, E.J.** "Entomology primer." UI Master Gardener School, Twin Falls, ID, March 2019.
- Wenninger, E.J.** "Insect IPM in the yard and garden." UI Master Gardener School, Twin Falls, ID, March 2019.
- Wenninger, E.J.** and S.D. Eigenbrode "Sugar beet entomology program update and research proposal." Idaho Sugar Industry Proposal Review Meeting. Twin Falls, ID, February 2019.
- Wenninger, E.J.** "Beneficial arthropods workshop" Idaho Potato Conference, Pocatello, ID, January 2019.
- Wenninger, E.J.**, J. Dahan, A. Karasev, J. Miller, J. Woodhall, K. Deulmann, and N. Olsen. "Potato psyllid and Liberibacter monitoring in Idaho." Idaho Potato Conference, Pocatello, ID, January 2019.
- Wenninger, E.J.** "Potato psyllid and zebra chip update." Pesticide Applicator Recertification Training. Mountain Home, ID, December 2018.
- Wenninger, E.J.** "Update on Kimberly potato psyllid program." Potato Storage & Agronomy Advisory Committee meeting. Twin Falls, ID, December 2018.
- Wenninger, E.J.** "Update on Kimberly potato entomology program." Potato Pest Advisory Committee meeting. Kimberly, ID, November 2018.
- Wenninger, E.J.** "Entomology primer." UI Master Gardener School, Twin Falls, ID, November 2018.
- Wenninger, E.J.** "Insect IPM in the yard and garden." UI Master Gardener School, Twin Falls, ID, November 2018.
- Wenninger, E.J.** and **N. Olsen.** "Zebra Chip Advisory Group meeting." Acequia, ID, August 2018.
- Wenninger, E.J.**, **A. Stanzak**, **L. Standley**, and **J. Lojewski.** "Insect Petting Zoo." UI Twilight Tour, Kimberly, ID, July 2018.
- Wenninger, E.J.** "Insect pest management studies in potato and sugar beet." Corteva Showcase, Kimberly, ID, June 2018.

- Wenninger, E.J.** “Insect pest management studies in potato and sugar beet.” UI Snake River Pest Management Tour, Kimberly, ID, June 2018.
- Wenninger, E.J.,** A. Carroll, J. Dahan, A. Karasev, M. Thornton, J. Miller, P. Nolte, J. Woodhall, K. Deulmann, N. Olsen, and W. Price. “Monitoring and management of potato psyllids and zebra chip disease in potato.” Shoshone-Bannock Tribes Agricultural Resources Management (ARM) Program. Blackfoot, ID, March 2018.
- Wenninger, E.J.** “Update on Kimberly potato entomology program.” Potato Pest Advisory Committee meeting. Kimberly, ID, February 2018.
- Wenninger, E.J.** and S.D. Eigenbrode “Sugar beet entomology program update and research proposal.” Idaho Sugar Industry Proposal Review Meeting. Twin Falls, ID, February 2018.
- Wenninger, E.J.,** J. Lojewski, N. Olsen, P. Wharton, A. Rashed, and A. Karasev. “Quantifying effects of time of infection on ZC disease development both at harvest and during storage.” Washington/Oregon Potato Conference, Kennewick, WA, January 2018.
- Wenninger, E.J.,** A. Carroll, J. Dahan, A. Karasev, M. Thornton, J. Miller, P. Nolte, J. Woodhall, K. Deulmann, N. Olsen, and W. Price. “Potato psyllid and Liberibacter monitoring in Idaho.” Idaho Potato Conference, Pocatello, ID, January 2018.
- Wenninger, E.J.** “Major problems with minor pests?” Idaho Potato Conference, Pocatello, ID, January 2018.
- Wenninger, E.J.** “Management of two-spotted spider mites and caterpillars in sugar beet.” Snake River Sugar Beet Conference, Caldwell, ID, December 2017.
- Wenninger, E.J.** “Management of two-spotted spider mites and caterpillars in sugar beet.” Snake River Sugar Beet Conference, Burley, ID, December 2017.
- Wenninger, E.J.** “Potato psyllids and zebra chip” STEM Club meeting, College of Southern Idaho, Twin Falls, ID, November 2017.
- Wenninger, E.J.** “Insect pest management in sugar beet.” Beet Sugar Development Foundation Agriculture School, Boise, ID, July 2017.
- Wenninger, E.J.** “Insect pest management studies in potato and sugar beet.” UI Snake River Pest Management Tour, Kimberly, ID, June 2017.
- Wenninger, E.J.** “Crop consultant 101: sugar beet insects.” The Amalgamated Sugar Company Crop Consultant 101 School, Boise, ID, March 2017.
- Wenninger, E.J.** and S.D. Eigenbrode “Sugar beet entomology program update and research proposal.” Idaho Sugar Industry Proposal Review Meeting. Twin Falls, ID, February 2017.
- Wenninger, E.J.** “Update on potato psyllid and zebra chip research.” Idaho Potato Conference, Pocatello, ID, January 2017.

- Wenninger, E.J.** “Insect management from Aphids to B-list pests.” Idaho Potato Conference, Pocatello, ID, January 2017.
- Wenninger, E.J.** “Management of beet leafminer flies in sugar beet using seed and foliar treatments.” Snake River Sugar Beet Conference, Burley, ID, December 2016.
- Morishita, D.W.,** K.M. Belmont, E.J. Wenninger, and W.H. Neibling. “Effect of tillage, irrigation, and nitrogen rates on weeds, insects, and sugar beet.” Snake River Sugar Beet Conference, Burley, ID, December 2016.
- Wenninger, E.J.** “Management of beet leafminer flies in sugar beet using seed and foliar treatments.” Snake River Sugar Beet Conference, Caldwell, ID, December 2016.
- Morishita, D.W.,** K.M. Belmont, E.J. Wenninger, and W.H. Neibling. “Effect of tillage, irrigation, and nitrogen rates on weeds, insects, and sugar beet.” Snake River Sugar Beet Conference, Caldwell, ID, December 2016.
- Wenninger, E.J.** “Update on Kimberly potato entomology program.” Potato Pest Advisory Committee meeting. Aberdeen, ID, December 2016.
- Wenninger, E.J.** “Update on Kimberly potato entomology program.” Potato Storage Advisory Committee meeting. Twin Falls, ID, November 2016.
- Wenninger, E.J., **A. Carroll,** and **L. Standley.** “Insect Petting Zoo.” UI Twilight Tour, Kimberly, ID, July 2016.
- Strausbaugh, C.A.** and E.J. Wenninger. “Curly top insecticide trials.” Tour of Curly Top Nursery, Rhizomania Nursery, and Rhizoctonia Root Rot Nursery, Kimberly, ID, July 2016.
- Wenninger, E.J.** “Insect pest management studies in potato and sugar beet.” UI Snake River Pest Management Tour, Kimberly, ID, June 2016.
- Wenninger, E.J.,** A. Rashed, and A.D. Carroll. “Beneficial arthropods workshop” Idaho Potato Conference, Pocatello, ID, January 2016.
- Wenninger, E.J.** “Update on potato psyllids and zebra chip” Idaho Potato Conference, Pocatello, ID, January 2016.
- Wenninger, E.J.** “Using the PNW pest alert system for disseminating weekly updates on potato psyllid monitoring.” Idaho Potato Conference, Pocatello, ID, January 2016.
- Wenninger, E.J.** “Potato psyllid monitoring program.” Pesticide Applicator Recertification Training, Caldwell, ID, December 2015.
- Wenninger, E.J.** “Webworms: biology and management.” Snake River Sugar Beet Conference, Burley, ID, December 2015.
- Wenninger, E.J.** “Webworms: biology and management.” Snake River Sugar Beet Conference, Boise, ID, December 2015.

- Wenninger, E.J.** “Update on Kimberly potato entomology program.” Potato Pest Advisory Committee meeting. Aberdeen, ID, December, 2015.
- Wenninger, E.J.** “Update on Kimberly potato entomology program.” Potato Storage Advisory Committee meeting. Kimberly, ID, November, 2015.
- Morishita, D.W. and E.J. Wenninger.** “Annual Sugar Beet Researchers’ Tour.” Southern Idaho, July 2015.
- Wenninger, E.J.** “Insect pest management studies in potato and sugar beet.” UI Snake River Pest Management Tour, Kimberly, ID, June 2015.
- Wenninger, E.J. and **G.E. Shewmaker.** “Clover root curculio and thrips in alfalfa.” Pesticide Applicator License Recertification Seminar, Arco, ID, March 2015.
- Wenninger, E.J. and **G.E. Shewmaker.** “Clover root curculio in alfalfa: biology, behavior, and management.” Idaho Hay & Forage Conference, Burley, ID, February, 2015.
- Wenninger, E.J.,** N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev. “Three years of monitoring potato psyllids and zebra chip in Idaho.” Pesticide Applicator License Recertification Seminar, Twin Falls, ID, February 2015.
- Wenninger, E.J., A. Carroll, and J. Vogt.** “Entomology primer and beyond.” UI Advanced Master Gardener School, Twin Falls, ID, February 2015.
- Wenninger, E.J.,** S. Mondal, A. Carroll, and A. Rashed. “Beneficial arthropods workshop.” Idaho Potato Conference, Pocatello, ID, January 2015.
- Wenninger, E.J.** “Insecticide Resistance & Potato Pest Management.” Idaho Potato Conference, Pocatello, ID, January 2015.
- Wenninger, E.J.,** N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev. “Three years of monitoring potato psyllids and zebra chip in Idaho.” Idaho Potato Conference, Pocatello, ID, January 2015.
- Mondal, S., D. Shrestha, and **E.J. Wenninger.** “Interactions of PVY with its aphid vectors.” Idaho Seed Potato Growers meeting, Pocatello, ID, January 2015.
- Wenninger, E.J.** “Root-feeding insect identification and management in sugar beet.” Snake River Sugar Beet School, Boise, ID, December 2014.
- Mondal, S. and **Wenninger, E.J.** “Contribution of non-colonizing aphids to PVY incidence in potato in Southern Idaho.” Montana Potato Conference, Bozeman, MT, November 2014 [invited].
- Wenninger, E.J., **A. Carroll, and J. Vogt.** “Insect Petting Zoo.” UI Twilight Tour, Kimberly, ID, July 2014.
- Wenninger, E.J.** “Entomology primer and beyond.” UI Advanced Master Gardener School, Twin Falls, ID, March 2014.
- Wenninger, E.J.** “Insect IPM in the yard and garden.” UI Advanced Master Gardener School, Twin Falls, ID, March 2014.

- Wenninger, E.J.** “Insect pest management in sugar beet.” The Amalgamated Sugar Company Grower School, Twin Falls, ID, March 2014.
- Wenninger, E.J., A. Carroll, and A. Rashed.** “Beneficial insects workshop.” Idaho Potato Conference, Pocatello, ID, January 2014.
- Wenninger, E.J.** “Insecticide Resistance & Potato Pest Management.” Idaho Potato Conference, Pocatello, ID, January 2014.
- Wenninger, E.J., N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev.** “Potato psyllid and zebra chip update.” Idaho Potato Conference, Pocatello, ID, January 2014.
- Wenninger, E.J.** “Potato Science Course: Insect Identification, Scouting, and Management.” Idaho Potato Conference, Pocatello, ID, January 2014.
- Wenninger, E.J., N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev.** “Potato psyllid and zebra chip update.” Far West Agribusiness Association conference, Twin Falls, ID, January 2014.
- Wenninger, E.J.** “Twospotted spider mite: identification, biology, and management in sugar beet.” Snake River Sugar Beet School, Nampa, ID, December 2013.
- Wenninger, E.J.** “Management of beet leafminer and sugar beet root maggot in sugar beet.” Snake River Sugar Beet School, Nampa, ID, December 2013.
- Wenninger, E.J.** “Twospotted spider mite: identification, biology, and management in sugar beet.” Snake River Sugar Beet School, Burley, ID, December 2013.
- Wenninger, E.J.** “Management of beet leafminer and sugar beet root maggot in sugar beet.” Snake River Sugar Beet School, Burley, ID, December 2013.
- Wenninger, E.J.** “Twospotted spider mite: identification, biology, and management in sugar beet.” Pesticide Applicator License Recertification Seminar, Jerome, ID, December 2013.
- Wenninger, E.J.** “Twospotted spider mite: identification, biology, and management in sugar beet.” Pesticide Applicator License Recertification Seminar, Burley, ID, December 2013.
- Wenninger, E.J.** “Potato psyllid and zebra chip update.” Northwest Coalition for Alternatives to Pesticides field day, Aberdeen, ID, September 2013.
- Henne, D. and E.J. Wenninger.** “Potato Psyllid Trapping and Management.” www.plantmanagmentnetwork.org, August 2013.
- Wenninger, E.J. and N. Olsen.** “Idaho research and extension efforts on zebra chip disease of potato.” Idaho Legislative Tour, Parma, ID, August 2013.
- Wenninger, E.J.** “Insect pest management studies in sugar beets and potatoes.” UI Snake River Pest Management Tour, Kimberly, ID, June 2013.
- Wenninger, E.J.** “Insect pests in sugar beet.” The Amalgamated Sugar Company Spring Symposium, Boise, ID, March 2013.

- Wenninger, E.J.** and N. Olsen. “Zebra chip: a new insect-vectorred disease in Idaho.” State Legislative Breakfast, Boise, ID, January 2013.
- Wenninger, E.J., P.J.S. Hutchinson,** and **P. Wharton.** “Resistance Management: Diseases, Weeds, and Insects.” Idaho Potato Conference, Pocatello, ID, January 2013.
- Wenninger, E.J.** “Potato Science Course: Insect Management.” Idaho Potato Conference, Pocatello, ID, January 2013.
- Wenninger, E.J.** “Potato Science Course: Insect Management.” Idaho Potato Conference, Pocatello, ID, January 2013.
- Wenninger, E.J.** “Insecticide Management for Potato Psyllids.” Idaho Potato Conference, Pocatello, ID, January 2013.
- Wenninger, E.J.** “Potato Psyllids & Zebra Chip: 2012 Update.” Idaho Potato Conference, Pocatello, ID, January 2013.
- Wenninger, E.J.** “Potato Psyllids & Zebra Chip: 2012 Update.” Dow Agrosiences meeting, Pocatello, ID, January 2013.
- Wenninger, E.J.** and T. McCammon. “Master Gardener Hands-On Insect Identification Training.” Kimberly, ID, January 2013.
- Wenninger, E.J.** “Potato psyllids and zebra chip in potato: identification, biology, and management.” Far West Agribusiness Association conference, Twin Falls, ID, January 2013.
- Wenninger, E.J.** “Beet leafminers and sugar beet root aphids: identification, biology, and management.” Snake River Sugar Beet School, Burley, ID, December 2012.
- Wenninger, E.J.** “Twospotted spider mites: identification, biology, and management.” Snake River Sugar Beet School, Burley, ID, December 2012.
- Wenninger, E.J.** N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev. “Potato psyllids and ZC in Idaho – monitoring and insecticide trials.” Miller Research meeting, Rupert, ID, December 2012.
- Wenninger, E.J.** N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev. “Potato psyllids and ZC in Idaho – monitoring and insecticide trials.” Pesticide Applicator License Recertification Seminar, Jerome, ID, December 2012.
- Wenninger, E.J.** N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev. “Potato psyllids and ZC in Idaho – monitoring and insecticide trials.” Pesticide Applicator License Recertification Seminar, Burley, ID, December 2012.
- Wenninger, E.J., and **N. Perdomo.** “Insect Petting Zoo.” UI Twilight Tour, Kimberly, ID, July 2012.
- Wenninger, E.J.** “Insect pest management studies in sugar beets and potatoes.” UI Snake River Pest Management Tour, Kimberly, ID, June 2012.

- Neher, O.T., E.J. Wenninger, and **D.W. Morishita**. “Idaho Sugar Beet Growers Survey.” The Amalgamated Sugar Company Grower School, Burley, ID, March 2012.
- Neher, O.T., E.J. Wenninger, and **D.W. Morishita**. “Idaho Sugar Beet Growers Survey.” The Amalgamated Sugar Company Grower School, American Falls, ID, March 2012.
- Neher, O.T., **E.J. Wenninger**, and D.W. Morishita. “Idaho Sugar Beet Growers Survey.” The Amalgamated Sugar Company Grower School, La Grande, OR, February 2012.
- Neher, O.T.**, E.J. Wenninger, and D.W. Morishita. “Idaho Sugar Beet Growers Survey.” The Amalgamated Sugar Company Grower School, Mountain Home, ID, February 2012.
- Neher, O.T., E.J. Wenninger, and **D.W. Morishita**. “Idaho Sugar Beet Growers Survey.” The Amalgamated Sugar Company Grower School, Twin Falls, ID, February 2012.
- Neher, O.T.**, E.J. Wenninger, and D.W. Morishita. “Idaho Sugar Beet Growers Survey.” The Amalgamated Sugar Company Grower School, Nampa, ID, February 2012.
- Wenninger, E.J.** and N. Olsen. “Responses of Colorado potato beetles to different potato varieties.” Northwest Coalition for Alternatives to Pesticides, Grower’s Own Conference, Twin Falls, ID, February 2012.
- Wenninger, E.J.** and **N. Olsen**. “Potato psyllid: identification, scouting, biology, and management.” Simplot crop consultant meeting, Twin Falls, ID, February 2012.
- Wenninger, E.J.** “Twospotted spider mite: identification, biology, and management.” Treasure Valley Bean School, Nampa, ID, February 2012.
- Wenninger, E.J.** “Twospotted spider mite: identification, biology, and management.” Magic Valley Bean School, Twin Falls, ID, January 2012.
- Wenninger, E.J.** and N. Olsen. “Zebra chip: a new insect-vector disease in Idaho.” State Legislative Breakfast, Boise, ID, January, 2012.
- Wenninger, E.J.** and **Alan Schreiber**. “Insecticide resistance.” Idaho Potato Conference, Pocatello, ID, January 2012.
- Wenninger, E.J.** and N. Olsen. “Responses of Colorado potato beetles to different potato varieties.” Idaho Potato Conference, Pocatello, ID, January 2012.
- Wenninger, E.J.** “Identification of common pests of sugar beet and potato.” Far West Agribusiness Association conference, Twin Falls, ID, January 2012.
- Wenninger, E.J.** “Biology and management of leafminers and root aphids.” Snake River Sugar Beet School, Burley, ID, December 2011.
- Wenninger, E.J.** “Insect resistance to Bt-based insecticides,” Twin Falls County Pest Abatement District board meeting, Twin Falls, ID, October 2011.

- Wenninger, E.J.** “Insect pest management studies in sugar beets and potatoes.” UI Snake River Pest Management Tour, Kimberly, ID, June 2011.
- Wenninger, E.J. and K. Daku.** Entomology Day Camp (hands-on insect workshop), Shoshone, ID, June 2011.
- Wenninger, E.J.** “Entomology primer and beyond” and “Insect IPM in the yard and garden – review.” UI Advanced Master Gardener School, Twin Falls, ID, June 2011.
- Bechinski, E., D. Morishita, **T. Prather**, R. Sampangi, G. Shewmaker, **E.J. Wenninger**, and **O.T. Neher.** “The backbone of diagnosis – sample submission and the right way to take pictures.” U-Idaho Annual Extension Conference, Moscow, ID, April 2011.
- Wenninger, E.J. “Research update: insect control without Temik; economic damage from leafminers.” Snake River Sugar Beet Growers’ School, Aberdeen, ID, March 2011. [prepared by E.J. Wenninger; presented by Oliver Neher]
- Wenninger, E.J.** “Research update: insect control without Temik; economic damage from leafminers.” Snake River Sugar Beet Growers’ School, Burley, ID, March 2011.
- Wenninger, E.J.** “Entomology primer” and “Insect IPM in the yard and garden.” UI Master Gardener School, Filer, ID, March 2011.
- Wenninger, E.J.** “Grasshoppers in cereals: identification, biology, and management.” Idaho Cereal Schools, various locations, ID, February 2011. [prepared by E.J. Wenninger; presented by E.J. Wenninger in Rupert and by R. Findlay in other Idaho locations]
- Wenninger, E.J.** “Research update: insect control without Temik; economic damage from leafminers; strip tillage and insects.” Snake River Sugar Beet School, Twin Falls, ID, January 2011.
- Wenninger, E.J.** “Sugar beet insect fundamentals: identification, life cycles, scouting, and thresholds.” Snake River Sugar Beet School, Twin Falls, ID, January 2011.
- Wenninger, E.J.** “Insect control in sugar beets in a world without Temik.” Far West Agribusiness Association conference, Twin Falls, ID, January 2011.
- Wenninger, E.J.** “Sugar beet root aphids: identification, biology, and management.” Pesticide Applicator License Recertification Seminar, Twin Falls, ID, December 2010.
- Wenninger, E.J.** “Sugar beet root aphids: identification, biology, and management.” Pesticide Applicator License Recertification Seminar, Burley, ID, December 2010.
- Wenninger, E.J.** “Insect IPM on small farms.” UI Farms and Food Conference, Gooding, ID, November 2010.

- Wenninger, E.J., D. Beus, **K. Daku**, and **N. Perdomo**. “Insect Petting Zoo.” UI Twilight Tour, Kimberly, ID, July 2010.
- Wenninger, E.J.** and **K. Daku**. Entomology Day Camp (hands-on insect workshop), Shoshone, ID, June 2010.
- Wenninger, E.J.** “A primer on integrated pest management.” Idaho Mosquito & Vector Control Association Meeting, Nampa, ID, April 2010.
- Wenninger, E.J.** “Building a better moth (and fly) trap: insect chemical ecology and behavior.” UI Plant & Soil Sciences 501 Seminar Series, Moscow, ID, March 2010.
- Wenninger, E.J.** “Entomology primer” and “Insect IPM in the yard and garden.” UI Master Gardener School, Challis, ID, March 2010.
- Wenninger, E.J.** “Entomology primer” and “Insect IPM in the yard and garden.” UI Master Gardener School, Arco, ID, March 2010.
- Wenninger, E.J.** “Entomology primer” and “Insect IPM in the yard and garden.” UI Master Gardener School, Shoshone, ID, March 2010.
- Wenninger, E.J.** “Insect pest management in alfalfa: a lesson of two weevils.” Idaho Hay & Forage Conference, Burley, ID, February, 2010.
- Wenninger, E.J.** “Insecticide seed treatments in sugar beets.” Snake River Sugar Beet Growers School, Burley, ID, February 2010.
- Bechinski, E.J. and **E.J. Wenninger**. Magic Valley Cereal School, Rupert, ID, February 2010. “Large yellow underwing, *Noctua pronuba*: new exotic cutworm in Idaho” [prepared by E.J. Bechinski; presented by E.J. Wenninger]
- Wenninger, E.J.** “Insect pest management in alfalfa: aphids.” Camas County Cereal and Forage School, Fairfield, ID, January 2010.
- Wenninger, E.J.** Sugar beet workshop – member of interactive discussion panel. Far West Agribusiness Association Conference, Jackpot, NV, January 2010.
- Wenninger, E.J.** “Insecticide seed treatments in sugar beets.” Snake River Sugar Beet School, Twin Falls, ID, January 2010.
- Wenninger, E.J.** “Insect pest management in alfalfa: a lesson of two weevils.” Pesticide Applicator License Recertification Seminar, Twin Falls, ID, December 2009.
- Wenninger, E.J.** “Insect pest management in alfalfa: a lesson of two weevils.” Pesticide Applicator License Recertification Seminar, Burley, ID, December 2009.
- Wenninger, E.J.** “Green approaches to managing yard and garden insects.” UI Master Gardener School, Twin Falls, ID, November 2009.
- Wenninger, E.J.** “The clover root curculio: an emerging pest of alfalfa in Idaho?” Idaho Association of Plant Protection meeting, Jerome, ID, November 2009.

Tubbs, K., J. Snelling, T. Brand, C. Amundsen, G. Garatea, T. Strolberg, E. Gibby, and E.J. Wenninger. “Black fly and mosquito abatement in Twin Falls County.” Twin Falls County Fair, Filer, ID, September 2009.

Wenninger, E.J. Hands-on insect workshop. Lincoln County Fair, Shoshone, ID, July 2009.

Wenninger, E.J. “Visual and olfactory attractants for insect pests.” UI Organic Cropping Systems Field Day, Kimberly, ID, July 2009.

Wenninger, E.J. “Insect pest management in sugar beets.” UI Snake River Weed Control Research Tour, Kimberly, ID, June 2009.

Wenninger, E.J. “Entomology primer.” UI Master Gardener School, Salmon, ID, March 2009.

Wenninger, E.J. “Insect pest management.” Amalgamated Sugar Spring Symposium, Boise, ID, March 2009.

Wenninger, E.J. and P.J. Landolt. “Development of a feeding attractant lure for the codling moth: effects of ratio, release rate, and lure age.” Washington State Horticultural Association, Yakima, WA, December 2008.

Averill, A. and E.J. Wenninger. “Management of insect pests in cranberry.” Cape Cod Cranberry Growers Association meeting, 2005.

Wenninger, E.J. “Management of oriental beetle in cranberry using female sex pheromone.” Cape Cod Cranberry Growers Association meeting, 2004.

Professional Meeting Papers, Workshops, Showings, Recitals: [presenter in **bold**]

Wenninger, E.J., D. Wickwar, and O.T. Neher. Sugar beet Pest Management Strategic Plan update workshop, Boise, ID, 2023.

Wenninger, E.J., S.P. DeGrey, R.L. Groves, B. Bradford, B. Manley, E.R. Barnes. Responses of beneficial arthropods to insecticide programs—including RNAi-based bioinsecticide Calantha™—targeting Colorado potato beetle. Entomological Society of America, National Harbor, MD, 2023. [poster]

Kelie Yoho and E.J. Wenninger. Age-related resistance for PVY management in potato. Idaho Association of Plant Protection meeting, Rupert, ID, 2023.

DeGrey, S. and E.J. Wenninger. RNAi-based insecticides on beneficial arthropods. Idaho Association of Plant Protection meeting, Rupert, ID, 2023.

Akhiwu, B. and E.J. Wenninger. Pheromone-lure-baited bucket traps for sugar beet root maggot, Rupert, ID, 2023.

Strausbaugh, C., E. Vincill, and E.J. Wenninger. Curly top viruses and phytoplasmas associated with beet leafhoppers, Rupert, ID, 2023.

Wenninger, E.J. and D. Wickwar. Idaho Extension Implementation Program update. WERA 1017 meeting, Homer, AK, 2023.

- Strausbaugh, C.**, E. Vincill, and E.J. Wenninger. Curly top viruses and phytoplasmas in sugar beets, dry beans, and beet leafhoppers along with vector population dynamics in Southern Idaho. Curly top WERA, Fresno, CA, 2023.
- Dahan, J.**, Y.I. Wolf, G.E. Orellana, E.J. Wenninger, E.V. Koonin, and A.V. Karasev. A novel flavivirus-like virus in alfalfa (*Medicago sativa* L.) crops along the Snake River valley. Annual Meeting of the American Phytopathological Society, Denver, CO, 2023.
- Wenninger, E.J.**, J. Dahan, N. Olsen, and A.V. Karasev. To spray or not to spray: monitoring potato psyllids and *Liberibacter* to inform grower decisions for managing zebra chip disease in potato. Pacific Branch Entomological Society of America, Seattle, WA, 2023. [invited]
- Wenninger, E.J.**, B. Akhiwu, O.T. Neher, P. Foote, C.A. Strausbaugh. Sweet success in sugar beet collaborations. Pacific Branch Entomological Society of America, Seattle, WA, 2023. [invited]
- Yoho, K.** and E.J. Wenninger. Using mineral crop oils to manage Potato virus Y and foster beneficial insect communities in potato cropping systems. Pacific Branch Entomological Society of America, Seattle, WA, 2023.
- Akhiwu, B.** and E.J. Wenninger. Mass trapping of sugar beet root maggot flies, *Tetanops myopaeformis* (von Röder) (Diptera:Ulidiidae). Pacific Branch Entomological Society of America, Seattle, WA, 2023. [poster]
- Yoho, K.** and E.J. Wenninger. Utilizing crop oils and age-related resistance for managing in-season spread of PVY. SCRI virus meeting, Denver, CO, 2023.
- Yoho, K.** and E.J. Wenninger. Using crop oils to manage in-season spread of PVY in the Pacific Northwest. Potato virus WERA meeting, Denver, CO, 2023.
- Strausbaugh, C.A.**, E.J. Wenninger, L. Jackson, and E. Vincill. Curly top viruses and phytoplasmas in sugar beets, dry beans, and beet leafhoppers. American Society of Sugar Beet Technologists meeting, Savannah, GA, 2023.
- Wenninger, E.J.**, J. Dahan, N. Olsen, and A. Karasev. Potato psyllid and zebra chip disease risk assessment in Idaho, USA. Hemipteran-Plant Interactions Symposium, Melbourne, Australia, 2022.
- Yoho, K.** and E.J. Wenninger. Mineral oils for PVY protection in the PNW: updates and future directions. Idaho Association of Plant Protection meeting, Burley, ID, 2022.
- Akhiwu, B.** and E.J. Wenninger. Updating sugar beet root maggot action thresholds. Idaho Association of Plant Protection meeting, Burley, ID, 2022.
- Desirée Wickwar** and E.J. Wenninger. Extension Implementation Plan and the new University of Idaho IPM website. Idaho Association of Plant Protection meeting, Burley, ID, 2022.
- Strausbaugh, C.A.** and E.J. Wenninger. Beet leafhopper populations in Idaho and the Beet curly top virus strains they vector. Idaho Association of Plant Protection meeting, Burley, ID, 2022.

- Miller, K.,** S. DeGrey, and E.J. Wenninger. Monitoring aphid vectors of potato virus Y over part of the growing season. Idaho INBRE (IDeA Network of Biomedical Research Excellence) Symposium, Twin Falls, ID, 2022.
- Miller, K.,** S. DeGrey, and E.J. Wenninger. Monitoring aphid vectors of potato virus Y over part of the growing season. Idaho INBRE (IDeA Network of Biomedical Research Excellence) Symposium, Moscow, ID, 2022.
- Duellman, K.M.,** M. Lent, W. Bills, A. Jensen, J.W. Woodhall, B. Wood, J. Hatch, E.J. Wenninger, and A. Westra. An aphid-monitoring network in southeast Idaho enhanced by molecular detection of vectored plant pathogens. Potato Association of America meeting, Missoula, MT, 2022.
- Cruzado, Sadeghi, Prager, Casteel, Wenninger, Bosque-Perez, Karasev, **Rashed.** Complex interactions in co-occurring vector-borne pathosystems: a case study of potato virus Y and zebra chip disease on a solanaceous crop. International Plant Virus Epidemiology Symposium, Madrid, Spain, 2022.
- Wenninger, E.J.,** J. Dahan, N. Olsen, and A.V. Karasev. Potato psyllid and zebra chip disease risk assessment in Idaho, USA. World Potato Congress, Dublin, Ireland, 2022.
- Yoho, K. and **E.J. Wenninger.** Aphid and PVY research update. Potato virus WERA meeting / SCRI virus meeting, Denver, CO, 2022.
- Wenninger, E.J.,** B. Akhiwu, and S.D. Eigenbrode. Developing management tools from aggregation pheromone lures for sugar beet root maggot flies. Pacific Branch Entomological Society of America meeting, Santa Rosa, CA, 2022. [invited]
- Wenninger, E.J.,** K.M. Belmont, D.W. Morishita, A.T. Adjesiwor, and W.H. Neibling. Effects of tillage, irrigation, and nitrogen on insect pests in sugar beet. Entomological Society of America meeting, Virtual, 2021.
- Yoho, K.** and E.J. Wenninger. Effects of crop oils on PVY incidence and beneficial insect communities in the PNW. Idaho Association of Plant Protection meeting, Burley, ID, 2021.
- Akhiwu, B.** and E.J. Wenninger. The chemical ecology, behavior, and reproductive biology of the sugar beet root maggot fly. Idaho Association of Plant Protection meeting, Burley, ID, 2021.
- Strausbaugh, C.A.** and E.J. Wenninger. Survey of beet leafhoppers and plants in southern Idaho for beet curly top virus. Idaho Association of Plant Protection meeting, Burley, ID, 2021.
- Strausbaugh, C.A.** and E.J. Wenninger. Beet leafhopper populations and *Beet curly top virus* strains in southern Idaho. Curly top WERA meeting, Boise, ID, 2021.
- Strausbaugh, C.A.** and E.J. Wenninger. Beet leafhopper populations and *Beet curly top virus* strains in southern Idaho. American Society of Sugar Beet Technologists meeting, Virtual, 2021.

- Rashed, A.,** R.K. Cruzado, R. Sadeghi, J. Parker, S. Prager, C. Casteel, E.J. Wenninger, and N.A. Bosque-Pérez. Interspecific interactions between vector-borne pathosystems sharing a host plant: plant-mediated effects of *Potato virus Y* on zebra chip pathosystem. Entomological Society of America meeting, Virtual, 2020.
- Strausbaugh, C.** and E.J. Wenninger. Management of beet curly top virus on sugar beet. Idaho Association of Plant Protection meeting, Virtual, 2020.
- [cancelled due to COVID-19] **Wenninger, E.J.** and S.D. Eigenbrode. Developing an aggregation pheromone-based attractant lure for the sugar beet root maggot fly. Pacific Branch Entomological Society of America meeting, Spokane, WA, 2020. [invited]
- [cancelled due to COVID-19] **Wenninger, E.J.** Barriers to IPM implementation in Idaho potato and sugar beet. Pacific Branch Entomological Society of America meeting, Spokane, WA, 2020. [invited]
- Wenninger, E.J.** PVY aphid vector biology and ecology. Potato Virus WERA meeting, Reno, NV, 2020. [invited]
- Wenninger, E.J.** and S.D. Eigenbrode. Optimizing attraction of sugar beet root maggot flies, *Tetanops myopaeformis* (Diptera: Ulidiidae), to aggregation pheromone lures. Entomological Society of America meeting, St. Louis, MO, 2019.
- Wenninger, E.J.** and S.D. Eigenbrode. Optimizing attraction of sugar beet root maggot flies, *Tetanops myopaeformis* (Diptera: Ulidiidae), to aggregation pheromone lures. Idaho Association of Plant Protection meeting, Twin Falls, ID, 2019.
- Miller, J., P. Castrovillo, J. Marshall, E. Wenninger,** and **J. Woodhall.** Panel discussion: emerging and re-emerging pests and pathogens in Idaho, Twin Falls, ID, 2019.
- Wenninger, E.J.,** N. Olsen, J. Lojewski, P. Wharton, J. Dahan, A. Rashed, and A.V. Karasev. Effects of potato psyllid vector density and time of infection on zebra chip disease development after harvest and during storage. European Association for Potato Research, Pathology and Pests Section meeting, Neuchâtel, Switzerland, 2019.
- Strausbaugh, C.** and E. Wenninger. Management of curly top in sugar beet with foliar insecticides. American Society of Sugar Beet Technologists, Clearwater Beach, FL, 2019.
- Cruzado, K., E.J. Wenninger, N.A. Bosque-Pérez, and **A. Rashed.** Research update on potato psyllid overwintering. Idaho Potato Conference Reporting Session, Pocatello, ID, 2019.
- Wenninger, E.J.** Insecticide resistance management in potato. Idaho Potato Conference, Pocatello, ID, 2019.

- Wenninger, E.J.**, A. Rashed, N. Olsen, P. Wharton, and A. Karasev. Effects of time of infection on zebra chip disease development at harvest and during storage. Entomological Society of America meeting, Vancouver, Canada, 2018.
- Miller, J., P. Castrovillo, A. Karasev, E. Wenninger, D. Morishita, and J. Woodhall.** Panel discussion: emerging and re-emerging pests and pathogens in Idaho, Twin Falls, ID, 2018.
- Wenninger, E.J.**, J. Dahan, A.V. Karasev, J. Miller, J. Woodhall, K. Deulmann, N., and N. Olsen. Potato psyllid and *Liberibacter* monitoring in Idaho. Idaho Association of Plant Protection meeting, Twin Falls, ID, 2018.
- Wenninger, E.J.**, J. Dahan, M. Thornton, and A.V. Karasev. Phenology of the potato psyllid and Lso in Idaho on bittersweet nightshade and field bindweed. Potato Association of America meeting, Boise, ID, 2018.
- Wenninger, E.J.**, J. Dahan, M. Thornton, and A.V. Karasev. Phenology of the potato psyllid and Lso in Idaho on bittersweet nightshade and field bindweed. Pacific Branch Entomological Society of America meeting, Reno, NV, 2018.
- Daley, T.B. and **E.J. Wenninger.** Screening for host resistance against the sugar beet root maggot, *Tetanops myopaeformis* (Diptera: Ulidiidae), using a greenhouse bioassay. 76th Congress of the Institute International de Reserches Betteravières, Deauville, France, 2018.
- Cruzado, R.K., M. Rashidi, N. Olsen, R. Novy, E.J. Wenninger, N. Bosque-Pérez, and **A. Rashed.** Potential source of tolerance and resistance to zebra chip disease in potato genotypes. World Potato Congress, Cusco, Peru, 2018.
- Wenninger, E.J.**, J. Dahan, A.V. Karasev, M. Thornton, J. Miller, P. Nolte, J. Woodhall, K. Deulmann, N. Olsen, A. Carroll, and W. Price. Phenology of the potato psyllid, *Bactericera cockerelli* (Hemiptera: Triozidae), and “*Candidatus Liberibacter solanacearum*” in commercial potato fields in Idaho. World Potato Congress, Cusco, Peru, 2018.
- Cruzado, R.**, M. Rashidi, N. Olsen, E.J. Wenninger, R.G. Novy, N.A. Bosque-Pérez, and A. Rashed. Zebra Chip: Progress in screening potato genotypes for tolerance/resistance. Idaho Association of Plant Protection meeting, Jerome, ID, 2017.
- Alyokhin, A., S. Bag, J. Dill, J. Dwyer, K.E. Frost, R. Groves, S. Rondon, E.J. Wenninger, D. Lagos-Kutz, and **C. Benedict.** Multistate effort to understand aphid diversity and PVY spread in potatoes in the United States. Entomological Society of America meeting, Denver, CO, 2017.
- Cruzado, R.**, M. Rashidi, N. Olsen, E.J. Wenninger, R.G. Novy, N.A. Bosque-Pérez, and A. Rashed. Screening for resistance to zebra chip in potato genotypes. Entomological Society of America meeting, Denver, CO, 2017.
- Wenninger, E.J.**, A. Carroll, J. Dahan, A. Karasev, M. Thornton, J. Miller, P. Nolte, N. Olsen, and W. Price. Phenology of the potato psyllid, *Bactericera cockerelli* (Hemiptera: Triozidae), and “*Candidatus Liberibacter solanacearum*” in

commercial potato fields in Idaho. Entomological Society of America meeting, Denver, CO, 2017.

- Wenninger, E.J.**, N. Olsen, A. Rashed, P.S. Wharton, and A. Karasev. Effects of potato psyllid density and time of infection on zebra chip disease development both at harvest and during storage. Hemipteran-Plant Interactions Symposium, Madrid, Spain, 2017.
- Rashidi, M., R.K. Cruzado, E.J. Wenninger, X. Liang, N. Olsen, A. Karasev, P. Wharton, **A. Rashed**. Zebra chip symptom and Lso development in potato with respect to vector density and the time of infestation: a greenhouse evaluation. Hemipteran-Plant Interactions Symposium, Madrid, Spain, 2017.
- Dahan, J.**, E.J. Wenninger, B. Thompson, S. Eid, N. Olsen, and A.V. Karasev. Psyllid haplotypes in Southern Idaho potato fields during 2012 to 2015, and incidence of '*Candidatus Liberibacter solanacearum*' causing zebra chip disease. American Phytopathological Society meeting, San Antonio, TX 2017.
- Price, W.J.**, E.J. Wenninger, and B. Shafii. Modeling potato psyllid occurrence data using sticky trap data for the management of zebra chip disease. Conference on Applied Statistics in Agriculture, Manhattan, KS, 2017.
- Wenninger, E.J.**, S. Emmert, K. Tindall, H. Ding, M.A. Boetel, D. Rajabaskar, and S. Eigenbrode. A putative aggregation pheromone in the sugar beet root maggot fly (Diptera: Ulidiidae). Pacific Branch Entomological Society of America meeting, Portland, OR, 2017.
- Rashed, A.**, M Rashidi, R. Cruzado, N. Olsen, E.J. Wenninger, Nilsa A. Bosque-Pérez, and R.G. Novy. Zebra chip resistance in potato: Building upon our current knowledge, shaping the future. Pacific Branch Entomological Society of America meeting, Portland, OR, 2017.
- Daley, T.** and E.J. Wenninger. Screening for host plant resistance against the sugar beet root maggot, *Tetanops myopaeformis* (Diptera: Ulidiidae), using a greenhouse bioassay. Pacific Branch Entomological Society of America meeting, Portland, OR, 2017.
- Fife, A.**, R.G. Novy, Arash Rashed, N.A. Bosque-Pérez, and E.J. Wenninger. Observing the settling behavior of the potato/tomato psyllid, *Bactericera cockerelli* (Šulc) (Hemiptera: Triozidae), on different potato (*Solanum tuberosum*) germplasm. Pacific Branch Entomological Society of America meeting, Portland, OR, 2017.
- Cruzado, K.**, N. Olsen, E.J. Wenninger, R.G. Novy, Nilsa Bosque-Pérez, and A. Rashed. Screening for resistance to zebra chip in potato germplasm. Pacific Branch Entomological Society of America meeting, Portland, OR, 2017.
- Cruzado, K.**, N. Olsen, E.J. Wenninger, R. Novy, and A. Rashed. Screening for resistance to zebra chip disease in potato germplasm. Idaho Association of Plant Protection meeting, Jerome, ID, 2016.
- Wenninger, E.J.**, N. Olsen, M. Thornton, P. Nolte, J. Miller, J. Dahan, A. Carroll, and A.V. Karasev. Monitoring of potato psyllids, *Candidatus Liberibacter*

solanacearum, and zebra chip in Idaho. Idaho Association of Plant Protection meeting, Jerome, ID, 2016.

Wenninger, E.J., N. Olsen, M. Thornton, P. Nolte, J. Miller, J. Dahan, A. Carroll, and A.V. Karasev. Monitoring of potato psyllids, *Candidatus Liberibacter solanacearum*, and zebra chip in Idaho. ZC SCRI planning meeting, Boise, ID, 2016.

Fife, A. and E.J. Wenninger. Settling behavior of the potato psyllid, *Bactericera cockerelli* (Šulc) (Hemiptera: Trioziidae), on potato germplasm with putative resistance to *Candidatus Liberibacter solanacearum* (Lso). International Congress of Entomology, Orlando, FL, 2016.

Wenninger, E.J., N. Olsen, M. Thornton, P. Nolte, J. Miller, J. Dahan, and A. Karasev. Monitoring of potato psyllids, *Candidatus Liberibacter solanacearum*, and zebra chip in Idaho. European Association for Potato Research, Pathology and Pests Section meeting, Dundee, Scotland, 2016.

Wenninger, E.J., N. Olsen, A. Rashed, P.S. Wharton, and A. Karasev. Effects of potato psyllid density and time of infection on zebra chip disease development both at harvest and during storage. Potato Association of America meeting, Grand Rapids, MI, 2016.

Dahan, J., E.J. Wenninger, N. Olsen, and A.V. Karasev. Relative abundance of potato psyllid haplotypes in potato fields during 2012 to 2015, and incidence of *Candidatus Liberibacter solanacearum*. American Phytopathological Society Pacific Division meeting, La Conner, WA, 2016.

Rashed, A., M. Rashidi, R.G. Novy, R. Cruzado, N. Olsen, and E.J. Wenninger. Screening of species-derived germplasm and non-U.S. cultivars to identify sources of resistance to Zebra Chip disease of potato. Pacific Branch Entomological Society of America meeting, Honolulu, HI, 2016.

Wenninger, E.J., A. Rashed, N. Olsen, P. Wharton, and A. Karasev. Effects of potato psyllid density and time of infection on development of zebra chip disease at harvest and during storage. Pacific Branch Entomological Society of America meeting, Honolulu, HI, 2016.

Wenninger, E.J., J.R. Vogt, K.E. Daku, D.W. Morishita, W.H. Neibling, and O.T. Neher. Effects of tillage practices in sugar beet on abundance and diversity of predatory arthropods. 75th Congress of the Institute International de Reserches Betteravières, Brussels, Belgium, 2016.

Wenninger, E.J., A. Alyokhin, S. Bag. J. Dill, J. Dwyer, K. Frost, R. Groves, S.I. Rondon, and C. Benedict. Seasonal aphid captures in potato and implications for spread of *Potato virus Y*. Potato Expo, Las Vegas, NV, 2016.

Wenninger, E.J., J. Vogt, K.E. Daku, D.W. Morishita, W.H. Neibling, and O.T. Neher. Insect pest responses to reduced tillage and irrigation rates in sugar beet. Entomological Society of America meeting, Minneapolis, MN, 2015.

Rashidi, M., E.J. Wenninger, X. Liang, C. Rogers, N. Olsen, A. Karasev, P. Wharton, and A. Rashed. Zebra chip disease development in potato in relation to vector

density and time of infection. Entomological Society of America meeting, Minneapolis, MN, 2015.

- Wenninger, E.J.**, N. Olsen, M. Thornton, P. Nolte, J. Miller, J. Dahan, and A. Karasev. Potato psyllid and zebra chip update. Idaho Association of Plant Protection meeting, Jerome, ID, 2015.
- Strausbaugh, C.A. and **E.J. Wenninger**. Efficacy of seed and foliar treatment against curly top virus in relation to timing of infection in sugar beet. Curly top WERA meeting, Fresno, CA, 2015.
- Wenninger, E.J.**, N. Olsen, M. Thornton, P. Nolte, J. Miller, J. Dahan, and A. Karasev. Three years of monitoring potato psyllids, liberibacter, and zebra chip in Idaho. Potato Association of America meeting, Portland, ME, 2015.
- Wenninger, E.J.**, N. Olsen, M. Thornton, P. Nolte, J. Miller, J. Dahan, and A. Karasev. Three years of monitoring potato psyllids, liberibacter, and zebra chip in Idaho. Pacific Branch Entomological Society of America meeting, Coeur d'Alene, ID, 2015.
- Wenninger, E.J.**, S. Mondal, and D. Shrestha. Interactions of PVY with its aphid vectors. Potato Virus WERA meeting, San Diego, CA, 2015.
- Wenninger, E.J.**, S. Emmert, K. Tindall, H. Ding, M. Boetel, and S.D. Eigenbrode. Aggregation behavior and a putative sex pheromone in the sugar beet root maggot fly. American Society of Sugar Beet Technologists, Clearwater Beach, FL, 2015.
- Wenninger, E.J.**, S. Mondal, and D. Shrestha. Interactions of PVY with its aphid vectors. Idaho Seed Potato Grower's Seminar, Pocatello, ID, 2015.
- Alyokhin, A.**, R. Groves, S.I. Rondon, E.J. Wenninger, A. Murphy, A. Buzza, S. Mondal, and R. Cating. Landscape effects on the epidemiology of *Potato virus Y*. Potato Expo, Orlando, FL, 2015.
- Wenninger, E.J.**, S. Emmert, K. Tindall, H. Ding, M. Boetel, and S. Eigenbrode. Aggregation behavior and a putative sex pheromone in the sugar beet root maggot fly, *Tetanops myopaeformis*. Entomological Society of America meeting, Portland, OR, 2014.
- Mondal, S.**, E.J. Wenninger, P.J.S. Hutchinson, S.D. Eigenbrode, and N.A. Bosque-Pérez, D. Shrestha, and J.L. Whitworth. Transmission of Potato virus Y strains from single, two-way, and three-way strain mixtures by the aphid vector *Myzus persicae* (Sulzer) on potato. Entomological Society of America meeting, Portland, OR, 2014.
- Wenninger, E.J.** N. Olsen, M. Thornton, P. Nolte, J. Miller, J. Dahan, and A. Karasev. Three years of monitoring potato psyllids, *Candidatus Liberibacter solanacearum*, and zebra chip in Idaho. SCRI Zebra Chip Annual Reporting Session, Portland, OR, 2014.
- Rashed, A.**, L. Paetzold, L. Woodell, N. Olsen, F. Workneh, M. Rashidi, E. Wenninegr, and C.M. Rush. *Candidatus Liberibacter solanacearum* development

- in Russet Norkotah under commercial storage conditions. SCRI Zebra Chip Annual Reporting Session, Portland, OR, 2014.
- Wenninger, E.J.** Potato psyllid and zebra chip insecticide trials. Idaho Association of Plant Protection meeting, Jerome, ID, 2014.
- Wenninger, E.J.** and N. Olsen. Host plant choice of Colorado potato beetle, *Leptinotarsa decemlineata*, and variation in defoliation and yield losses among organically grown commercial potato varieties. Organic Agriculture Research & Extension Initiative (OREI) meeting, Washington, DC, 2014.
- Wenninger, E.J.**, O.T. Neher, D.W. Morishita, and W.H. Neibling. Strip tillage – its origins in the U.S., and effects on soil water content, diseases, weeds, and insects in sugar beet. Institute International de Reserches Betteravières seminar: tillage and drilling advances - increasing efficiency in sugar beet cultivation, Zakrzów, Poland, 2014 [invited].
- Neher, O.T.**, W.H. Neibling, and E.J. Wenninger. Importance of soil moisture and isolate origin on disease severity of three *Rhizoctonia solani* AG 2-2 IIIB isolates. American Phytopathological Society meeting, Minneapolis, MN, 2014.
- Wenninger, E.J.** and N. Olsen. Host plant choice of Colorado potato beetle, *Leptinotarsa decemlineata*, and variation in defoliation and yield losses among organically grown commercial potato varieties. Potato Association of America meeting, Spokane, WA, 2014.
- Dahan, J.**, B. Thompson, E.J. Wenninger, N. Olsen, and A.V. Karasev. Analysis of the prevalence and haplotypes of *Liberibacter solanacearum*, the causal agent of Zebra Chip disease, in South-central Idaho during the 2012 and 2013 potato growing seasons. Potato Association of America meeting, Spokane, WA, 2014.
- Wenninger, E.J.**, O.T. Neher, D.W. Morishita, and W.H. Neibling. Soil water content, disease, insect, and weed response in strip-till sugar beet. 74th Congress of the Institute International de Reserches Betteravières, Dresden, Germany, 2014.
- Wenninger, E.J.**, N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev. Monitoring potato psyllids, *Candidatus Liberibacter solanacearum*, and zebra chip disease in Idaho. Pacific Branch Entomological Society of America meeting, Tucson, AZ, 2014.
- Mondal, S.**, E.J. Wenninger, P.J.S. Hutchinson, S.D. Eigenbrode, N.A. Bosque-Pérez, D. Shrestha, J.L. Whitworth, and W.E. Snyder. Response of aphid vectors of *Potato leaf roll virus* to potato varieties in southern Idaho. Pacific Branch Entomological Society of America meeting, Tucson, AZ, 2014.
- Mondal, S.**, E.J. Wenninger, P.J.S. Hutchinson, M. Wiebe, S.D. Eigenbrode, and N.A. Bosque-Pérez. Contribution of cereal aphids to PVY incidence in southern Idaho. Entomological Society of America meeting, Austin, TX, 2013.
- Miller, J.** and E.J. Wenninger. Potato psyllids and ZC insecticide trials. Idaho Association of Plant Protection meeting, Jerome, ID, 2013.

- Wenninger, E.J.** N. Olsen, M. Thornton, P. Nolte. Monitoring of potato psyllids, *Candidatus Liberibacter solanacearum*, and zebra chip in Idaho during the 2013 growing season. SCRI Zebra Chip Annual Reporting Session, San Antonio, TX, 2013.
- Strausbaugh, C.A.**, E.J. Wenninger, and A. Eujayl. Management of curly top in sugar beet with seed and foliar insecticides. American Phytopathological Society meeting, Austin, TX, 2013.
- Neher, O.T.**, W.H. Neibling, and E.J. Wenninger. Importance of soil moisture and isolate origin on disease severity of three *Rhizoctonia solani* AG 2-2 IIIB isolates. American Phytopathological Society meeting, Austin, TX, 2013.
- Wenninger, E.J.**, O.T. Neher, D.W. Morishita, W.H. Neibling, and K. Daku. Effects of tillage and irrigation practices in sugar beet on insect pests and their natural enemies. Pacific Branch Entomological Society of America meeting, Lake Tahoe, CA, 2013.
- Wenninger, E.J.**, O.T. Neher, K.E. Daku, W.H. Neibling, and D.W. Morishita. Effects of tillage and irrigation practices on sugar beet yield and soil moisture. American Society of Sugar Beet Technologists, Anaheim, CA, 2013.
- Wenninger, E.J.**, O.T. Neher, K.E. Daku, W.H. Neibling, and D.W. Morishita. Effects of tillage and irrigation practices in sugar beet on diseases, weeds, and insect pests and their natural enemies. American Society of Sugar Beet Technologists, Anaheim, CA, 2013.
- Mondal, S. and **E.J. Wenninger**. Virus-vector interaction studies with different strains and isolates of PVY and different aphid vectors. Potato Virus WERA meeting. New Orleans, LA, 2013.
- Wenninger, E.J.** N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev. Potato psyllids and ZC in Idaho – monitoring and insecticide trials. Idaho Association of Plant Protection meeting, Jerome, ID, 2012.
- Wenninger, E.J.** N. Olsen, M. Thornton, P. Nolte, and A. Karasev. Monitoring of potato psyllids, Lso, and ZC in Idaho during the 2012 growing season. SCRI Zebra Chip Annual Reporting Session, San Antonio, TX, 2012.
- Mondal, S.**, E.J. Wenninger, P.J.S. Hutchinson, S.D. Eigenbrode, N. A. Bosque-Pérez, D. Shrestha, and J. Whitworth. Studies on the virus-vector relationships of different isolates of *Potato Virus Y* strains and their three aphid vectors on potato. Pacific Branch Entomological Society of America meeting, Portland, OR, 2012.
- Shrestha, D.**, E.J. Wenninger, P. J. Hutchinson, S. Mondal, J.L. Whitworth, and N. A. Bosque-Pérez. Interactions among potato genotypes, virus strains, inoculation timing and methods in the Potato virus Y and green peach aphid pathosystem. Pacific Branch Entomological Society of America meeting, Portland, OR, 2012.
- Wenninger, E.J.**, O.T. Neher, K.E. Daku, W.H. Neibling, and D.W. Morishita. Soil water content, disease, insect, and weed response in strip-till sugar beet. 73rd Congress of the Institute International de Reserches Betteravières, Brussels, Belgium, 2012.

- Mondal, S.,** E.J. Wenninger, P.J.S. Hutchinson, D. Shrestha, and J. Whitworth. Studies on the virus/vector relationship of potato virus Y in single and multiple strain mixtures and their aphid vector *Myzus persicae* (Sulzer) on potato. Entomological Society of America meeting, Reno, NV, 2011.
- Shrestha, D.,** E.J. Wenninger, P.J.S. Hutchinson, S. Mondal, and J. Whitworth. Interactions among potato varieties, virus strains, and inoculation timing and methods in the potato virus Y / *Myzus persicae* (Sulzer) system. Entomological Society of America meeting, Reno, NV, 2011.
- Daku, K.** and E.J. Wenninger. Arthropod responses to reduced tillage in sugar beets. Entomological Society of America meeting, Reno, NV, 2011.
- Nolte, P.,** N. Olsen, E. Wenninger, M. Thornton, and J. Crosslin. Zebra chip found in Idaho. SCRI Zebra Chip Annual Reporting Session, San Antonio, TX, 2011.
- Wenninger, E.J.** and Kristin Daku. Insect pest response to conservation tillage in sugar beets. Pacific Branch Entomological Society of America meeting, Waikoloa, HI, 2011.
- Mondal, S.,** S.D. Eigenbrode, P.J.S. Hutchinson, J.M. Alvarez, W.E. Snyder, J. Whitworth, N.A. Bosque-Pérez, and E.J. Wenninger. Effects of potato variety and locality on the densities of aphids that vector potato leaf roll virus in southern Idaho. Pacific Branch Entomological Society of America meeting, Waikoloa, HI, 2011.
- Strausbaugh, C.A.,** I.A. Eujayl, and E.J. Wenninger. Neonicotinoid seed treatments and foliar sprays on sugar beet for control of severe curly top. American Society of Sugar Beet Technologists meeting, Albuquerque, NM, 2011.
- Wenninger, E.J.** Leafminer (Diptera: Anthomyiidae) oviposition patterns in sugar beets and effects of infestations on yield. Entomological Society of America meeting, San Diego, CA, 2010.
- Wenninger, E.J.** Effects of leafminers on yield in sugar beets. Idaho Association of Plant Protection meeting, Burley, ID, 2010.
- Wenninger, E.J.** and P.J. Landolt. Apple and sugar feeding in adult codling moths: effects on longevity, fecundity, and egg fertility. Entomological Society of America meeting, Indianapolis, IN, 2009.
- Wenninger, E.J.,** L.L. Stelinski, and D.G. Hall. Relationships between adult abdominal color and reproductive potential in *Diaphorina citri* (Hemiptera: Psyllidae). Entomological Society of America meeting, Reno, NV, 2008.
- Stelinski, L.,** E.J. Wenninger, E. Onagbola, and D.G. Hall. Chemical ecology of *Diaphorina citri*. Florida Entomological Society meeting, Jupiter Beach, FL, 2008.
- D.G. Hall,** E.J. Wenninger, and R.W. Mankin. Reproductive biology and behavior of *Diaphorina citri*. Florida Entomological Society meeting, Jupiter Beach, FL 2008.
- Wenninger, E.J.** and D.G. Hall. Importance of multiple mating for female reproductive output in the psyllid *Diaphorina citri*. Entomological Society of America meeting, San Diego, CA, 2007.

- Mankin, R.W.**, E.J. Wenninger, and D.G. Hall. Acoustic signals in the courtship of male and female Asian citrus psyllids. Entomological Society of America meeting, San Diego, CA, 2007.
- Wenninger, E.J.** and D.G. Hall. Daily timing of mating and age at reproductive maturity in the Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Psyllidae). Florida Entomological Society meeting, Sarasota, FL, 2007.
- Hall, D.G.**, S.L. Lapointe, and E.J. Wenninger. Effects of a particle film on the biology and behavior of *Diaphorina citri* and its infestations in citrus. Southeastern Branch Entomological Society of America meeting, Knoxville, TN, 2007.
- Hall, D.G., **M.G. Hentz**, M.A. Ciomperlik, and E.J. Wenninger. A comparison of traps and tap sampling for monitoring adult Asian citrus psyllid, *Diaphorina citri* Kuwayama (Homoptera: Psyllidae), in citrus. Entomological Society of America meeting, Indianapolis, IN, 2006.
- Wenninger, E.J.**. Behavioral and ecological variables that play a role in mating disruption of oriental beetle. Eastern Branch Entomological Society of America meeting, Stanford, CT, 2005.
- Wenninger, E.J.** and A.L. Averill. On the management of oriental beetle in cranberry using female sex pheromone. Eastern Branch Entomological Society of America meeting, Harrisburg, PA, 2004.
- Wenninger, E.J.** and R.S. Inouye. Insect response to plant diversity and productivity on an experimental hazardous waste burial site. Pacific Branch Entomological Society of America meeting, Park City, UT, 2001.

Patents:

Grants and Contracts Awarded:

Cumulative grand total: \$84,573,935

Cumulative total spending authority: \$5,718,829

Johnson-Maynard et al. Awarded 2023. Innovative Agricultural and Marketing Partnership. USDA. \$55M (\$1,534,434 spending authority).

Wenninger, E.J., N. Olsen, and A.V. Karasev. Awarded 2023. Monitoring the distribution and abundance of potato psyllids and liberibacter in Idaho. Idaho Potato Commission. \$37,400 (\$32,400 spending authority).

Duellman, K., J. Woodhall, **E.J. Wenninger**, A. Westra, J. Hatch, and A. Jensen. Awarded 2023. Refining an Idaho aphid monitoring network for managing PVY risk. Idaho Potato Commission. \$29,337 (\$2,500 spending authority).

Reitz, S., **E.J. Wenninger**, T. Waters, L. Nottingham. Awarded 2023. Managing insect pests without neonicotinoids, pyrethroids and organophosphates. Northwest Potato Research Consortium. \$55,000 (\$15,000 spending authority).

Angelella, G., W.R. Cooper, A. Jensen, C. Wohleb, **E.J. Wenninger**. Awarded 2023. Identifying sources of green peach aphids flying into potato fields. Northwest Potato Research Consortium. \$36,517 (\$9,730 spending authority).

Wenninger, E.J. and A.V. Karasev. Awarded 2023. Beet leafhopper and BCTV strain survey. Idaho Sugar Industry. \$3,670 (\$1,520 spending authority).

Wenninger, E.J. and B. Akhiwu. Awarded 2023. Mass trapping or attract-and-kill of sugar beet root maggot (SBRM) flies. Idaho Sugar Industry. \$15,000 (\$15,000 spending authority).

Wenninger, E.J. Awarded 2023. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$38,650.

Wenninger, E.J., A.D. Moore, C.W. Rogers, and A.V. Karasev. Awarded 2022. Dissecting effects of insect-transmitted viruses on yield and quality of forage alfalfa. USDA-NIFA. \$299,965 (\$91,198 spending authority).

Wenninger, E.J. and A.V. Karasev. Awarded 2022. Do insect-transmitted viruses affect forage alfalfa yield and quality? National Alfalfa & Forage Alliance. \$58,304 (\$28,040 spending authority).

Wenninger, E.J., N. Olsen, and A.V. Karasev. Awarded 2022. Monitoring the distribution and abundance of potato psyllids and liberibacter in Idaho. Idaho Potato Commission. \$38,568 (\$33,568 spending authority).

Duellman, K., J. Woodhall, **E.J. Wenninger**, A. Westra, J. Hatch, and A. Jensen. Awarded 2022. Refining an Idaho aphid monitoring network for managing PVY risk. Idaho Potato Commission. \$29,337 (\$2,500 spending authority).

Angelella, G., W.R. Cooper, A. Jensen, C. Wohleb, **E.J. Wenninger**. Awarded 2022. Identifying sources of green peach aphids flying into potato fields. Northwest Potato Research Consortium. \$36,517 (\$9,730 spending authority).

Wenninger, E.J. and A.V. Karasev. Awarded 2022. Beet leafhopper and BCTV strain survey. Idaho Sugar Industry. \$3,400 (\$1,400 spending authority).

Wenninger, E.J. and B. Akhiwu. Awarded 2022. Mass trapping or attract-and-kill of sugar beet root maggot (SBRM) flies. Idaho Sugar Industry. \$15,000 (\$15,000 spending authority)

Wenninger, E.J. Awarded 2022. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$38,650.

Wenninger, E.J., N. Olsen, and A.V. Karasev. Awarded 2021. Developing the use of crop oils for management of current-season spread of *Potato virus Y* in Pacific Northwest potato. USDA-CPPM. \$199,769 (\$67,656 spending authority).

Wenninger, E.J. Awarded 2021. Greenhouse screening of sugar beet genotypes for resistance to sugar beet root maggot. SESVanderHave. Total / Spending authority \$10,400.

Rashed, A. et al. Awarded 2021. Extension Implementation Plan for IPM in Idaho 2021-2024. USDA-NIFA. \$807,690 (\$338,911 spending authority).

Wenninger, E.J., N. Olsen, and A.V. Karasev. Awarded 2021. Monitoring the distribution and abundance of potato psyllids and liberibacter in Idaho. Idaho Potato Commission. \$39,005 (\$34,505 spending authority).

Duellman, K., J. Woodhall, **E.J. Wenninger**, A. Westra, J. Hatch, and A. Jensen. Awarded 2021. Refining an Idaho aphid monitoring network for managing PVY risk. Idaho Potato Commission. \$34,005 (\$2,500 spending authority).

Strausbaugh, C. and **E.J. Wenninger**. Awarded 2021. Beet leafhopper and BCTV strain survey. Idaho Sugar Industry. \$30,000 (\$20,000 spending authority).

Wenninger, E.J., B. Akhiwu, and S.D. Eigenbrode. Awarded 2021. Updating action thresholds for sugar beet root maggots in modern beet varieties using a new pheromone lure. Idaho Sugar Industry. Total / Spending authority: \$25,000.

Wenninger, E.J., B. Akhiwu, O.T. Neher, and S.D. Eigenbrode. Awarded 2021. Updating action thresholds for sugar beet root maggots in modern beet varieties using a new pheromone lure. Beet Sugar Development Foundation. Total / Spending authority: \$7,250.

Wenninger, E.J. Awarded 2021. Effects of RNAi products and grower standards on Colorado potato beetles, beneficial arthropods, and potato yield. Greenlight Biosciences. Total / Spending authority: \$36,260.

Wenninger, E.J. Awarded 2021. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$31,500.

Karasev et al. Awarded 2020. Development of sustainable system-based management strategies for two vector-borne, tuber necrotic viruses in potato. USDA-NIFA-SCRI. \$5,700,000 (\$199,936 spending authority).

Duellman, K., J. Woodhall, J. Thomas, J. Hatch, **E.J. Wenninger**, A. Westra, and A. Jensen. Awarded 2020. Refining an Idaho aphid monitoring network for managing PVY risk. Idaho Potato Commission. \$33,728 (\$2,500 spending authority)

Wenninger, E.J., N. Olsen, and A.V. Karasev. Awarded 2020. Monitoring the distribution and abundance of potato psyllids and liberibacter in Idaho. Idaho Potato Commission. \$41,505 (\$36,505 spending authority).

Wenninger, E.J. and S.D. Eigenbrode. Awarded 2020. Updating action thresholds for sugar beet root maggots in modern beet varieties using a new pheromone lure. Idaho Sugar Industry. Total / Spending authority: \$25,000.

Wenninger, E.J., J. Piaskowski, and W. Price. Awarded 2020. Predicting risk of sugar beet root maggot infestations using historical root maggot sticky stake trap data and landscape and climatic data. Idaho Sugar Industry. Total / Spending authority: \$7,949.

Strausbaugh, C. and **E.J. Wenninger**. Awarded 2020. Beet leafhopper and BCTV strain survey. Idaho Sugar Industry. \$30,000 (\$20,000 spending authority).

- Wenninger, E.J.**, O.T. Neher, and S.D. Eigenbrode. Awarded 2020. Updating action thresholds for sugar beet root maggots in modern beet varieties using a new pheromone lure. Beet Sugar Development Foundation. Total / Spending authority: \$4,500.
- Wenninger, E.J.** Awarded 2020. Effects of RNAi products and grower standards on Colorado potato beetles, beneficial arthropods, and potato yield. Greenlight Biosciences. Total / Spending authority: \$46,000.
- Wenninger, E.J.** Awarded 2020. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$25,700.
- Duellman, K., J. Woodhall, J. Thomas, J. Hatch, **E.J. Wenninger**, A. Westra, and A. Jensen. Awarded 2019. Refining an Idaho aphid monitoring network for managing PVY risk. Idaho Potato Commission. \$35,000 (\$2,500 spending authority)
- Wenninger, E.J.**, N. Olsen, and A.V. Karasev. Awarded 2019. Monitoring the incidence, distribution, and abundance of potato psyllid populations and zebra chip disease in Idaho. Idaho Potato Commission. \$39,951 (\$34,951 spending authority).
- Wenninger, E.J.** and S.D. Eigenbrode. Awarded 2019. Optimizing attraction to aggregation pheromone lures in sugar beet root maggot flies. Idaho Sugar Industry. Total / Spending authority: \$7,805.
- Wenninger, E.J.** Awarded 2019. Evaluation of at-plant insecticide applications on wireworm damage in potato. Syngenta. Total / Spending authority: \$13,626.
- Wenninger, E.J.** Awarded 2019. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$64,900.
- Wenninger, E.J.**, N. Olsen, J. Woodhall, K. Kinzer, J. Miller, and A. Karasev. Awarded 2018. Monitoring the incidence, distribution, and abundance of potato psyllid populations and zebra chip disease in Idaho. Idaho Potato Commission. \$43,680 (\$4,484 spending authority).
- Cooper, W.R., D. Horton, C. Wohleb, T. Waters, S. Rondon, S. Reitz, **E. Wenninger**. Awarded 2018. Gut content analysis to pinpoint the weed sources of potato psyllid. Washington State Department of Agriculture. \$215,538 (\$15,000 spending authority).
- Karasev, A.V., N. Olsen, and **E.J. Wenninger**. Awarded 2018. Reducing current season spread of PVY, and mitigating tuber quality loss in tuber-borne infections. Idaho State Department of Agriculture Specialty Crop Block Grant. \$113,914 (\$35,684 spending authority).
- Wenninger, E.J.** and S.D. Eigenbrode. Awarded 2018. Optimizing attraction to aggregation pheromone lures in sugar beet root maggot flies. Idaho Sugar Industry. Total / Spending authority: \$9,078.

- Leytem, A., **E.J. Wenninger**, P. Wharton, S.L. Hafez, N. Olsen. Awarded 2018. Long-term impacts of manure application on production of potato and other crops. United States Department of Agriculture – Agricultural Research Service. \$13,000 (\$2,000 spending authority).
- Wenninger, E.J.** Awarded 2018. Evaluation of in-furrow insecticide applications on wireworm damage in potato. BASF. Total / Spending authority: \$13,986.
- Wenninger, E.J.** Awarded 2018. Effects of time of infection on zebra chip (ZC) disease development in Innate potatoes. J.R. Simplot Company. Total / Spending authority: \$13,626.
- Wenninger, E.J.** Awarded 2018. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$69,180.
- Ramirez, R. et al. Awarded 2018. Increasing preventive and curative options for clover root curculio management in western alfalfa. USDA-AFRI. \$250,000 (\$28,542 spending authority). [grant was submitted with J. Barbour as co-PI; I assumed his role in the project during 2018]
- Reitz, S., Schreiber, A., S. Rondon, T. Waters, and **E.J. Wenninger**. Awarded 2017. Evaluation of potato insect pest management programs. Northwest Potato Research Consortium. \$99,363 (\$20,408 spending authority).
- Wenninger, E.J.**, N. Olsen, P. Wharton, A. Rashed, and A. Karasev. Awarded 2017. Quantifying effects of time of infection on zebra chip (ZC) disease development and tuber physiology both at harvest and during storage. Northwest Potato Research Consortium. \$39,944 (\$12,954 spending authority).
- Wenninger, E.J.**, N. Olsen, J. Woodhall, K. Kinzer, J. Miller, and A. Karasev. Awarded 2017. Monitoring the incidence, distribution, and abundance of potato psyllid populations and zebra chip disease in Idaho. Idaho Potato Commission. \$42,480 (\$3,818 spending authority).
- Wenninger, E.J.** and S.D. Eigenbrode. Awarded 2017. Optimizing attraction to aggregation pheromone lures in sugar beet root maggot flies. Idaho Sugar Industry. Total / Spending authority: \$11,554.
- Wenninger, E.J.** Awarded 2017. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$50,800.
- Jensen, A., **E.J. Wenninger**, A. Karasev, S.I. Rondon, C.H. Wohleb, and J. Munyaneza. Awarded 2016. Zebra chip (ZC) and potato exports: pest delimitation and vector/pathogen monitoring impacting trade to Pacific Rim. USDA-TASC. \$475,882 (\$167,187 spending authority).
- Wenninger, E.J.**, N. Olsen, J. Woodhall, K. Kinzer, J. Miller, and A. Karasev. Awarded 2016. Monitoring the incidence, distribution, and abundance of potato psyllid populations and zebra chip disease in Idaho. Idaho Potato Commission. \$64,630 (\$26,556 spending authority).

- Wharton, P., A. Rashed, **E.J. Wenninger**, and N. Olsen. Awarded 2016. Rapid detection of Zebra chip pathogen, *Candidatus Liberibacter solanacearum* (Lso), in psyllids, green tissue, and potato tubers. Northwest Potato Research Consortium. \$12,463 (\$1,500 spending authority).
- Reitz, S., Schreiber, A., S. Rondon, T. Waters, and **E.J. Wenninger**. Awarded 2016. Evaluation of potato insect pest management programs. Northwest Potato Research Consortium. \$111,111 (\$22,950 spending authority).
- Wenninger, E.J.**, N. Olsen, P. Wharton, A. Rashed, and A. Karasev. Awarded 2016. Quantifying effects of time of infection on zebra chip (ZC) disease development and tuber physiology both at harvest and during storage. Northwest Potato Research Consortium. \$43,312 (\$16,814 spending authority).
- Moore, A., P. Wharton, N. Olsen, **E.J. Wenninger**, and X. Lang. Awarded 2016. Long-term impacts of manure application on production of potato and other crops. Northwest Potato Research Consortium. \$36,044 (\$2,000 spending authority).
- Wenninger, E.J.** Awarded 2016. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$74,450.
- Snyder, W., G. Greenway, G. Hoogenboom, J. Munyaneza, **E.J. Wenninger**, and D. Crowder. Awarded 2015. MAP-PSILDS-PNW: Mapping and Predicting Psyllid Sources, Immigration and Locality-Specific Disease Spread in the PNW. USDA-SCRI. \$2,688,111 (\$125,753 spending authority).
- Wenninger, E.J.** Awarded 2015. Evaluation of efficacy of biological insecticides against Colorado potato beetle. Monsanto. Total / Spending authority: \$52,166.
- Wenninger, E.J.** Awarded 2015. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$59,500.
- Wenninger, E.J.**, N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev. Awarded 2015. Monitoring the incidence, distribution, and abundance of potato psyllid populations and zebra chip disease in Idaho. Idaho Potato Commission. \$47,260 (\$23,600 spending authority).
- Wharton, P., A. Rashed, **E.J. Wenninger**, and N. Olsen. Awarded 2015. Rapid detection of Zebra chip pathogen, *Candidatus Liberibacter solanacearum* (Lso), in psyllids, green tissue, and potato tubers. Northwest Potato Research Consortium. \$20,000 (\$3,000 spending authority).
- Reitz, S., Schreiber, A., S. Rondon, T. Waters, and **E.J. Wenninger**. Awarded 2015. Evaluation of potato insect pest management programs. Northwest Potato Research Consortium. \$100,000 (\$20,625 spending authority).
- Wenninger, E.J.**, N. Olsen, P. Wharton, A. Rashed, and A. Karasev. Awarded 2015. Quantifying effects of vector density and time of infection on ZC disease

development and tuber physiology both at harvest and during storage. Northwest Potato Research Consortium. \$50,000 (\$18,000 spending authority).

Morishita, D.W., W.H. Neibling, and **E.J. Wenninger**. Awarded 2015. Improving the sustainability of sugar beet production and pest management. Idaho Sugar Industry. \$20,000 (\$5,935 spending authority).

Wenninger, E.J. Comparison of seed treatments for management of beet leafminer flies. Awarded 2015. Idaho Sugar Industry. \$8,000 (\$8,000 spending authority).

Gray et al. Awarded 2014. Biological and economic impacts of emerging potato tuber necrotic viruses and the development of comprehensive and sustainable management practices. USDA-SCRI. \$8,400,000 (\$250,711 spending authority).

Rashed, A., R. Novy, N. Olsen, and **E.J. Wenninger**. Awarded 2014. Identification of resistance to zebra chip disease in species-derived germplasm and non-U.S. cultivars for use in the development of zebra chip resistant and tolerant potato cultivars for the U.S. USDA-NIFA. \$494,000 (\$112,210 spending authority).

Horton, D., J. Munyaneza, L. Neven, T. Waters, C. Wohleb, S. Rondon, and **E. Wenninger**. Awarded 2014. Two invasive weeds as a winter “bridge” for potato psyllid in growing regions of Washington, Idaho, and Oregon. ARS Potato Proposals. \$78,000 (\$12,000 spending authority).

Wenninger, E.J. Awarded 2014. Developing a laboratory assay for screening sugar beet germplasm for resistance to sugar beet root maggot. Betaseed, Inc. Total / Spending authority: \$61,672.

Wenninger, E.J., N. Olsen, P. Wharton, A. Rashed, and A. Karasev. Awarded 2014. Quantifying effects of vector density and time of infection on ZC disease development and tuber physiology both at harvest and during storage. Northwest Potato Research Consortium. \$50,000 (\$19,463 spending authority).

Wenninger, E.J., N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev. Awarded 2014. Monitoring the incidence, distribution, and abundance of potato psyllid populations and zebra chip disease in Idaho. Idaho Potato Commission. \$43,910 (\$23,100 spending authority).

Schreiber, A., S. Reitz, S. Rondon, T. Waters, and **E.J. Wenninger**. Awarded 2014. Evaluation of potato insect pest management programs. Northwest Potato Research Consortium. \$106,080 (\$22,200 spending authority).

Moore, A., N. Olsen, P. Wharton, and **E.J. Wenninger**. Awarded 2014. Long-term impacts of manure application on production of potato and other crops. Northwest Potato Research Consortium. \$18,000 (\$2,000 spending authority).

Wenninger, E.J. Comparison of seed treatments for management of beet leafminer flies. Awarded 2014. Idaho Sugar Industry. \$8,000 (\$8,000 spending authority).

Morishita, D.W., W.H. Neibling, and **E.J. Wenninger**. Awarded 2014. Effects of fertilizer rate, irrigation and crop residue on diseases, insects and weed control in sugar beets. Idaho Sugar Industry. \$25,898 (\$13,628 spending authority).

Neibling, W.H. and **E.J. Wenninger**. Awarded 2014. Effects of irrigation levels on Rhizomania and Rhizoctonia root rot. Snake River Sugar Research & Seed Committee. \$13,000 (\$3,164 spending authority).

Wenninger, E.J. Awarded 2014. Colorado potato beetle insecticide efficacy trial. Monsanto. \$16,080 (\$16,080 spending authority).

Rashed, A., N. Olsen, and E.J. Wenninger. Awarded 2014. Quantifying Lso-potato interactions after harvest under industrial storage condition. ZC SCRI mini grants. \$15,000 (\$1,000 spending authority).

Wenninger, E.J. Awarded 2014. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$24,800.

Jensen, A. et al. Zebra Chip (ZC) and Potato Exports: Pest Delimitation and Vector/Pathogen Biology Impacting Trade to the Pacific Rim. Awarded 2013. USDA FAS-TASC via USPB. \$1,260,000 (\$163,266 spending authority).

Karasev, A. **E.J. Wenninger**, N. Olsen, and M. Thornton. Awarded 2013. Monitoring potato psyllid biotypes as well as off-season and overwintering distribution and abundance of potato psyllids and *Candidatus Liberibacter solanacearum* in Idaho. Idaho State Department of Agriculture Block Grant. \$156,403 (\$42,237 spending authority).

Wenninger, E.J., P.J.S. Hutchinson, D.W. Morishita, and P. Wharton. Awarded 2013. Investigations into the suitability of alternative host plants for the potato psyllid and the zebra chip pathogen, *Candidatus Liberibacter solanacearum*. Idaho Agricultural Experiment Station. \$45,000 (\$25,000 spending authority).

Olsen, N., **E.J. Wenninger**, and L. Woodell. Awarded 2013. Geospatial characterization of 2012 and 2013 zebra chip disease incidence in Idaho. Idaho Agricultural Experiment Station. \$40,000 (\$0 spending authority).

Wharton, P., N. Olsen, and **E.J. Wenninger**. Awarded 2013. Rapid detection and characterization of zebra chip disease and symptom development in potato foliage and tubers. Idaho Agricultural Experiment Station. \$10,000 (\$0 spending authority).

Wenninger, E.J., N. Olsen, M. Thornton, P. Nolte, J. Miller, and A. Karasev. Awarded 2013. Clarifying the incidence, distribution, movement, and development of potato psyllid populations and zebra chip disease in Idaho. Idaho Potato Commission. \$95,960 (\$46,000 spending authority).

Wenninger, E.J., P.J.S. Hutchinson, and S. Mondal. Awarded 2013. Managing PVY in Idaho. Idaho Potato Commission. \$24,700 (\$24,700 spending authority).

- Wenninger, E.J.** Comparison of seed treatments for management of beet leafminer flies. Awarded 2013. Idaho Sugar Industry. \$9,366 (\$9,366 spending authority).
- Morishita, D.W., O.T. Neher, W.H. Neibling, and **E.J. Wenninger**. Awarded 2013. Effects of fertilizer rate, irrigation and crop residue on diseases, insects and weed control in sugar beets. Idaho Sugar Industry. \$40,000 (\$9,676 spending authority).
- Neher, O.T., W.H. Neibling, and **E.J. Wenninger**. Awarded 2013. Effects of irrigation levels on Rhizomania and Rhizoctonia root rot. Snake River Sugar Research & Seed Committee. \$13,000 (\$1,500 spending authority).
- Wenninger, E.J.** Awarded 2013. Colorado potato beetle insecticide efficacy trial. Monsanto. \$9,000 (\$9,000 spending authority).
- Wenninger, E.J.** Awarded 2013. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$156,500.
- Wenninger, E.J.**, N. Olsen, M. Thornton, P. Nolte, and A. Karasev. Awarded 2012. Monitoring potato psyllids and zebra chip in Idaho and examining effects of disease on tubers during storage. Idaho State Department of Agriculture Block Grant. \$108,862 (\$25,417 spending authority).
- Eujayl, I., C. Strausbaugh, and **E.J. Wenninger**. Awarded 2012. Identification of differentially expressed genes induced by beet curly top in sugar beet. Beet Sugar Development Foundation. \$21,000 (\$0 spending authority).
- Wenninger, E.J.** Awarded 2012. Determining the economic importance of damage from leafminer flies in sugar beets and evaluating proposed action thresholds in Idaho. Snake River Sugar Research & Seed Committee. Total / Spending authority: \$9,000.
- Wenninger, E.J.**, O.T. Neher, W.H. Neibling, and D. Morishita. Awarded 2012. Soil water content, disease, insect, and weed response in strip-till sugar beets. Snake River Sugar Research & Seed Committee. \$16,000 (\$7,633 spending authority).
- Neher, O.T., W.H. Neibling, and **E.J. Wenninger**. Awarded 2012. Effects of irrigation levels on Rhizomania and Rhizoctonia root rot. Snake River Sugar Research & Seed Committee. \$21,000 (\$1,130 spending authority).
- Wenninger, E.J.** Awarded 2012. Insecticide efficacy trials for management of various insect pests of potato and sugar beet. Various. Total / Spending authority: \$51,250.
- Wenninger, E.J.**, P.J.S. Hutchinson, S. Mondal, D. Shrestha, and A. Workman. Awarded 2011. Managing PVY in Idaho. Idaho Potato Commission. Total / Spending authority: \$24,700.
- Wenninger, E.J.** Awarded 2011. Determining the economic importance of damage from leafminer flies in sugar beets and evaluating proposed action thresholds in Idaho. Snake River Sugar Research & Seed Committee. Total / Spending authority: \$9,000.

Wenninger, E.J., O.T. Neher, H. Neibling, and D.W. Morishita. Awarded 2011. Soil water content, disease, insect, and weed response in strip-till sugar beets. Snake River Sugar Research & Seed Committee. \$20,000 (\$9,247 spending authority).

Morishita, D.W., **E.J. Wenninger**, O.T. Neher, and D.L. Shouse. Awarded 2011. Weed, insect, and disease response to conventional tillage, strip tillage, and direct seeding in sugar beets. Snake River Sugar Research & Seed Committee. \$15,000 (\$1,800 spending authority).

Wenninger, E.J. Awarded 2011. Insecticide evaluation for management of wireworms, beet leafhoppers, and beet leafminers in sugar beet. Various. Total / Spending authority: \$5,000.

Wenninger, E.J. Awarded 2011. Insecticide evaluation for management of aphids in alfalfa. Various. Total / Spending authority: \$6,000.

Wenninger, E.J. Awarded 2011. Insecticide evaluation for management of wireworms, Colorado potato beetles, and aphids in potato. Various. Total / Spending authority: \$24,400.

Wenninger, E.J., N. Olsen, and K. Painter. Awarded 2010. Host plant choice of Colorado potato beetle and variation in defoliation rates and yield losses among commercial potato varieties. USDA-NIFA, OREI. \$108,815 (\$63,226 spending authority).

Wenninger, E.J. and O.T. Neher. Awarded 2010. Effects of strip tillage on pathogens and insect pests of sugar beets and their natural enemies. University of Idaho URO Seed Grant Program. \$11,893 (\$9,393 spending authority).

Bechinski and Hirnyck (co-Project Directors) and Hafez, Johnson, Morishita, Neher, Nolte, Olsen, Prather, and **Wenninger** (co-investigators). Awarded 2010. Idaho Extension IPM Program. USDA NIFA E-IPM Coordination and Support Program. \$414,000 (\$5,659 spending authority).

de Haro Martí, M.E., **E.J. Wenninger**, and J.A. Robbins. Awarded 2010. Southern Idaho insects of interest display. University of Idaho Critical Issues Grant. Total / Spending authority: \$1,800.

Wenninger, E.J. Awarded 2010. Determining the economic importance of damage from leafminer flies in sugar beets and evaluating proposed action thresholds in Idaho. Snake River Sugar Research & Seed Committee. Total / Spending authority: \$8,000.

Wenninger, E.J., O.T. Neher, H. Neibling, and D.W. Morishita. Awarded 2010. Soil water content, disease, insect, and weed response in strip-till sugar beets. Snake River Sugar Research & Seed Committee. \$20,000 (\$9,545 spending authority).

Wenninger, E.J. Awarded 2010. Insecticide evaluation for management of wireworms, beet leafhoppers, and beet leafminers in sugar beet. Various. Total / Spending authority: \$10,000.

Gray, S. A. Karasev, P. Nolte, P. Hutchinson, C. McIntosh, A. Charkowski, R. Groves, and **E.J. Wenninger**. Awarded 2009. Development of comprehensive strategies to manage Potato virus Y in potato and eradicate the tuber necrotic variants recently introduced into the United States. USDA-SCRI. \$2,381,759

(\$268,661 spending authority). [grant was submitted with J.M. Alvarez as co-PI; I assumed his role in the project during 2011]

Snyder, Crowder, Elbakidze, Goldberger, Harwood, Horton, Jabbour, Jenson, Lacey, Landolt, Munyaneza, Pappu, Pike, Rondon, Waters, **Wenninger**, Wohleb, Zack. Awarded 2009. Area-wide management of potato pests (AMPP) in the Pacific Northwest. USDA-CSREES Risk Assessment and Mitigation Program. \$2,048,490 (\$186,191 spending authority). [grant was submitted with J.M. Alvarez as co-PI; I assumed his role in the project during 2011]

Wenninger, E.J. and S. Eigenbrode. Awarded 2009. Developing an attract-and-kill method for managing sugar beet root maggot flies. Snake River Sugar Research & Seed Committee. Total / Spending authority: \$7,000.

Wenninger, E.J. Awarded 2009. Insecticide evaluation for management of aphids in alfalfa. Various. Total / Spending authority: \$7,518.

Wenninger, E.J. Awarded 2009. Insecticide evaluation for management of Colorado potato beetles in potato. Various. Total / Spending authority: \$6,125.

Wenninger, E.J. Awarded 2009. Evaluation of resistant varieties for management of sugar beet root maggot flies in sugar beet. Betaseed, Inc. Total / Spending authority: \$5,000.

Comprehensive Florida Citrus Production Research Advisory Council/Florida Department of Citrus Grant on Investigations into the Pathology and Entomology of Huanglongbing and Citrus Canker; \$624,857 awarded 2007; collaborator, with total of 7 USDA-ARS scientists involved.

Comprehensive Florida Citrus Production Research Advisory Council Box Tax Grant on Huanglongbing and Citrus Canker; \$609,684 awarded 2007; collaborator, with total of 9 USDA-ARS Scientists involved.

Comprehensive Florida Citrus Production Research Advisory Council Box Tax Grant on Huanglongbing; \$289,000 awarded 2006; collaborator, with total of 8 USDA-ARS Scientists involved.

Wenninger, E.J. Awarded 2000. Graduate Student Research & Scholarship Committee Grant, Idaho State University. Total / Spending authority: \$1,000.

SERVICE:

Major Committee Assignments:

Ex officio member of Twin Falls County Pest Abatement District board, 2009 to present

Chair / Co-Chair of Annual Snake River Sugar Beet Conference, 2013 to present
Annual Snake River Sugar Beet Conference Planning Committee member, 2009 to present

WERA 89 member – Potato Virus Disease Control, 2012 to present

WERA 1007 member – Curly Top virus Biology, Transmission, Ecology, and Management, 2010 to present

Search Committee member, Entomologist at University of Idaho Parma Research & Extension Center, 2022-2023

Search Committee member, Weed Scientist at University of Idaho Kimberly Research & Extension Center, 2019

Co-Chair of Program Committee, Pacific Branch Entomological Society of America meeting (Reno, NV), 2017-2018

Search Committee member, Farm Manager at University of Idaho Kimberly Research & Extension Center, 2017

Co-Chair of Program Committee, Pacific Branch Entomological Society of America meeting (Portland, OR), 2016-2017

Member at large, Pacific Branch Entomological Society of America, 2014-2017

Chair of Operations Committee, Pacific Branch Entomological Society of America meeting (Coeur d'Alene, ID), 2014-2015

Search Committee member, Plant Pathologist at University of Idaho Parma R & E Center, 2014-2015

Chair of Search Committee, Plant Pathologist at University of Idaho Kimberly R & E Center, 2014-2015 (search was halted due to budget reprioritization)

Chair, Idaho Association of Plant Protection, 2014-2015

Chair, Plant Protection Section, Potato Association of America, 2013-2014

Co-Chair, Idaho Association of Plant Protection, 2013-2014

Search Committee, Agronomist at University of Idaho Aberdeen R & E Center, 2013-2014

Search Committee, Entomologist at University of Idaho Aberdeen R & E Center, 2012

Committee on Common Names of Insects, Entomological Society of America, 2011-2014

Secretary of Fernald Entomological Club, University of Massachusetts, 2004-2005

Vice-President of Graduate Student Biology Club, Idaho State University, 2000-2001

Historian of Society for Environmental and Biological Sciences, University of Toledo, 1999-2000

Professional and Scholarly Organizations:

Entomological Society of America

Pacific Branch Entomological Society of America

Potato Association of America

American Society of Sugar Beet Technologists

Institute International de Reserches Betteravières (International Institute for Beet Research)

European Association for Potato Research

Idaho Association of Plant Protection

Outreach Service:

- “Learning to farm better: Farmers see U of I research in person,” Hannah Ashton, Times-News, 27 Aug 2021.
- “Entomologists fighting spud enemy,” Colin Tiernan, Times-News, 24 Aug 2019.
- “Tour looks at crop pests,” Cindy Snyder, For the Times-News, 26 Jun 2017.
- “Growing bugs and weeds for research, UI studies crop diseases,” Mychel Matthews, 23 Feb 2017.
- “Creepy crawlies: psyllids return to Magic Valley fields,” Andrew Weeks, Times-News, 22 Apr 2013.
- “Ring rot found on some Magic Valley farms,” Andrew Weeks, Times-News, 21 Oct 2012.
- “\$109,000 grant given to U of I to study potato psyllids,” Steve Kadel, Times-News, 12 Aug 2012.
- “More potato disease bacteria found in Twin Falls County,” Steve Kadel, Times-News, 11 Jul 2012.
- “Potato disease found in Twin Falls County,” Steve Kadel, Times-News, 5 Jul 2012.
- “U of I tours offer tips on ag pests,” Times-News, 27 Jun 2012.
- “Idaho's itchy-bitsy, (mostly) harmless spiders,” Melissa Davlin, Times-News, 4 May 2010.
- “Avoiding the bite,” Times-News, 4 May 2010.
- “Go green at T.F. garden symposium,” Times-News, 27 Oct 2009.

Community Service: (non-academic unrelated to employment)

- Volunteer for Everybody House, 2022 to present
- Volunteer for Voices Against Violence, 2016 to 2021
- Founding member, board member, secretary of Southern Idaho Climbing Coalition (SICC), 2015 to 2020

Honors and Awards:

Honors and Awards:

- Outstanding Paper, Plant Protection Section, American Journal of Potato Research, 2020
- Editor’s Choice Paper, Entomologia Experimentalis et Applicata, September 2020
- M.S. student advisee, Tucker Daley, 1st place, Masters ten-minute paper competition, Pacific Branch Entomological Society of American meeting, 2017, Portland, OR

M.S. student advisee, Austin Fife, 2nd place, Masters ten-minute paper competition,
Pacific Branch Entomological Society of American meeting, 2017, Portland, OR.
Eight years of service as a founding member of the Twin Falls County Pest
Abatement District, 2009-2016
Lotta Crabtree Fellowship in Agriculture for scholarly excellence, University of
Massachusetts, 2004-2005
Graduated With Honors, University of Toledo, 1999

PROFESSIONAL DEVELOPMENT:

Teaching:

Scholarship:

Making the switch: A beginner's guide to R for those familiar with other packages,
Denver, CO, 2 November 2017
Wireworm Workshop, Bozeman, MT, 12 March 2014

Outreach:

Idaho State Department of Agriculture Professional Pesticide Applicator License and
Statewide Consultant License (2009 and continuing education credits through
current year)

Administration/Management: