

Additional Project Outputs for OREI 2020-51300-32378

Intensifying Organic Grain Production: Balancing Production and Conservation Goals

Farmer resources:

- Barbercheck, M., A. Hodgson, A. Isaacson. 2024. *Seed cleaning at Provident Farms*. Penn State organic study circle. Field Crop News. 20 February 2024. https://extension.psu.edu/seed-cleaning-at-provident-farms?j=779688&sfmc_sub=35519620&l=159_HTML&u=20859616&mid=7234940&jb=2001&utm_medium=email&utm_source=MarketingCloud&utm_campaign=FAFC_2024_FEB_22_GN_EM_FIELDCROPNEWS&utm_content=FAFC_2024_FEB_22_GN_EM_FIELDCROPNEWS&subscriberkey=0030W00003P0ySiQAJ.
- Barbercheck, M. 25 Oct. 2022. Soil Health and Pest Management. Episode [S1E9](#) in Penn State Extension podcast series “Agronomy Highlights”. Full podcast series available at <https://extension.psu.edu/agronomy-highlights>.

Journal articles:

- Tillotson, S.A.W., Voortman, C.A., Wallace, J.M., Barbercheck, M.E. 2025. *Tillage type and sentinel insect species affect the relative prevalence of the entomopathogenic fungus, *Metarhizium robertsii*, in soil*. PLOS ONE 20(1): <https://doi.org/10.1371/journal.pone.0317149>. Open access.
- Regan, K. H. C. A. Voortman, M. E Barbercheck, 2024. *Seedcorn maggot response to planting date, cover crops, and tillage in organic cropping systems*, *Journal of Economic Entomology*, toae026. <https://doi.org/10.1093/jee/toae026>. Paywall.
- Wallace JM, Barbercheck ME, Curran W, Keene CL, Mirsky SB, Ryan M, VanGessel MJ (2021) *Cover crop-based, rotational no-till (CCORNT) management tactics influence crop performance in organic transition within the Mid-Atlantic US*. *Agronomy Journal*. 113:5335-5347. <https://doi.org/10.1002/agj2.20822>. Paywall.
- Champagne RJ, Wallace JM, Curran WS, Barbercheck ME (2021) *Rotational no-till and tillage-based organic corn produce management tradeoffs in the Northeast*. *Agronomy Journal*, 113(6), 5348-5361. <https://doi.org/10.1002/agj2.20823>. Paywall.

Book Chapter:

- Barbercheck, M. 2024. *Conservation of Entomopathogenic Nematodes in Agroecosystems*, Ch. 29 in: Shapiro-Ilan, D. and Lewis, E.E.(Eds.) *Entomopathogenic Nematodes as Biological Control Agents*. CABI, Wallingford, Oxfordshire, England. Link to purchase the book at <https://blog.cabi.org/2024/10/21/new-edition-of-book-on-entomopathogenic-nematodes-is-a-must-have-read-for-pest-management-professionals/>.