

Additional Project Outputs for ORG 2020-51106-32362

Designing Farmers' Goal-oriented Organic Grain Rotations to Optimize Agronomic, Economic, and Ecological Outcomes in Tennessee

Journal articles:

- Neelipally, R. T., Saha, D., and Jagadamma, S. 2024. *Defining boundaries and conceptual frameworks for ecologically focused agricultural systems*. Journal of Soil and Water Conservation, 79(4), 61A-65A. <https://doi.org/10.2489/jswc.2024.0416A>. Open access.
- Neelipally, R. T., Saha, D., Cui, S., and Jagadamma, S. 2025. *Agronomic responses from diverse tillage and cover crop integrated organic grain transitioning systems*, Agronomy Journal 117(3). <https://doi.org/10.1002/agj2.70095>. Paywall.

Theses and dissertations:

- Chhetri, A. 2024. *Nitrous oxide emissions from transitioning organic production systems: quantification and driving factors* (Dissertation). University of Tennessee, PhD Dissertation. https://trace.tennessee.edu/utk_graddiss/11343/.
- Neelipally, R.T. 2024. *Integrating conservation strategies in organic grain cropping systems for agronomic and soil health outcomes*. University of Tennessee, PhD Dissertation. https://trace.tennessee.edu/utk_graddiss/11378/.

Conference presentations and poster abstracts:

- Chhetri, A., Jagadamma, S., DeBruyn, J., and Saha, D. 2023. *Microbial pathways controlling hot moments of nitrous oxide emissions from organic cropping systems*. ASA-CSSA-SSSA International Annual Meeting, Oct. 31-Nov. 1, Saint Louis, MO. (Poster). Abstract at: <https://scisoc.confex.com/scisoc/2023am/meetingapp.cgi/Paper/149925>.
- Chhetri, A., Jagadamma, S., and Saha, D. 2024. *Soil nitrous oxide (N₂O) emissions and greenhouse gas budget from organic cropping systems*. ASA-CSSA-SSSA International Annual Meeting, Nov. 10-Nov. 14, San Antonio, TX (Oral). Abstract and recording available at: <https://scisoc.confex.com/scisoc/2024am/meetingapp.cgi/Paper/158672>.
- Chhetri A, Jagadamma S, and Saha D. 2022. *Drivers and controls of nitrous oxide emissions during cover crop decomposition in organic crop rotation*. ASA-CSSA-SSSA Annual Meeting, November 6-9, Baltimore, MD (poster). Abstract available at: <https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/142962>.
- Chhetri A, Jagadamma S, and Saha D. 2022. *Soil nitrous oxide emissions from corn phase of organic grain production systems in Tennessee*. ASA-CSSA-SSSA Annual Meeting, November 6-9, Baltimore, MD (poster). Abstract available at: <https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/142527>.

- Neelipally RTKR., Saha D., Cui S., Hawkins S.A., and Jagadamma S. 2022. *Designing organic grain rotation systems for agronomic and soil health benefits*. ASA-CSSA-SSSA Annual Meeting, November 6-9, Baltimore, MD (poster). *Abstract available at:* <https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/142401>.