

Additional Project Outputs for OREI 2020-51300-32178
Decision Support to Reduce the Nitrogen Yield Gap in Organic Agriculture

Journal article:

- Zhang, Z, J.P. Kaye, B.A. Bradley, J.P. Amsili, V. Suseela. 2022. *Cover crop functional types differentially alter the content and composition of soil organic carbon in particulate and mineral-associated fractions*. *Global Change Biology* 28: 5831-5848.
<https://doi.org/10.1111/gcb.16296>. *Open access*.

Abstracts and recordings from 2022 Tri-Societies Meeting in Baltimore, MD:

- Rivera-Ocasio, Z., Patel, H., King, W., Bell, T., Kaye, J. P., White, C. (2022). "Effects of Cover Crops and Nutrient Management on Microbial Carbon Use Efficiency and Nitrogen Mineralization," ASA, CSSA, SSSA International Annual Meeting, November 6-9, 2022, Baltimore, MD, USA.
<https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/145041>. *Video recording and abstract*.
- Luthard, M., Arrington, K., Bradley, B., Finney, D., White, C., and Kaye, J. (2022). "Investigating Soil Texture as a Control on Microbial Carbon Cycling" (Poster and Flash Talk). ASA-CSSA-SSSA International Annual Meeting, Baltimore, MD. Awarded 1st Place in Graduate Student Competition for Soil Biology and Biochemistry Division.
<https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/142152>. *Video recording and abstract*.
- Kownurko, M. & Luthard, M. (2022). "Exploring soil texture effects on microbial respiration in natural and constructed soils" (Poster). ASA, CSSA, SSSA International Annual Meeting, Baltimore, MD.
<https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/142143>. *Abstract*.
- Gavin, M., Arrington, K., Bradley, B., Kaye, J., White, C. "Developing a look-up table of carbon to nitrogen ratios for Pennsylvania cover crops." Poster presentation at the ASA, CSSA, SSSA International Annual Meeting, November 6-9, 2022, Baltimore, MD. Awarded 1st Place in the Students of Agronomy & Environmental Sciences Research Symposium Poster for Cover Crops Session.
<https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/142294>. *Abstract*.
- Arrington, K., White, C., Bradley, B., Rivera-Ocasio, Z., Kaye, J. "Modeling corn yield credits from nitrogen in soil organic matter and cover crops." Oral presentation at the ASA, CSSA, SSSA International Annual Meeting, November 6-9, 2022, Baltimore, MD.
<https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/142078>. *Video recording and abstract*.
- Finney, D. and Willard, E. (2022). "Site-Specific Soil Properties Mediate Nitrogen Mineralization from Soil Organic Matter and Cover Crops" (Poster). ASA, CSSA and SSSA International Annual Meetings, Agronomy Society of America, Baltimore, MD.
<https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/145285>. *Abstract*.

- Tierney, S., Antonio Ordonez, R., Da Silva Costa, G., Spargo, J. T., & White, C. (Co-Author). (November 9, 2022). "Comparison of Soil OM Metrics and the Influence on N Fertilization Prediction for Maize in PA," (Poster), ASA, CSSA and SSSA International Annual Meetings, Agronomy Society of America, Baltimore, MD.
<https://scisoc.confex.com/scisoc/2022am/meetingapp.cgi/Paper/142172>. *Abstract*.