



## Short CV

Tesfay Araya Weldeclassie, PhD

Professor: Agronomy



## Courses Presented

CROP3744 and CROP 3764 – Small grain, industrial and diverse crops - Undergraduate

CROP4844 – Weed Control - Undergraduate

CROP6844 – Weed Control - Postgraduate

## Research Focus

Climate Smart Agriculture; Soil health; Soil erosion; Soil and water conservation; Blending fertilizer application; Building agricultural resilience; Soil modification by invasive plant species; Weed management

## Most Recent Publications

1. Araya, T., Ochsner, T. E., Mnkeni, P. N., Hounkpatin, K. O. L., & Amelung, W. (2024). Challenges and constraints of conservation agriculture adoption in smallholder farms in sub-Saharan Africa: A review. *International Soil and Water Conservation Research*.
2. Haftu, K., Araya, T., Haile, M., & Teka, K. (2023). Effect of Compost, Blended (NPSZn), and Potassium Chloride Fertilizers on Soil Bulk Density and Moisture Content in Two Soil Textural Groups of Tigray, Northern Ethiopia. *Applied and Environmental Soil Science*, 2023(1), 8847233.
3. Haj-Amor, Z., Araya, T., Kim, D. G., & Bouri, S. (2023). Climate change effects on soil salinity in rainfed maize areas: a case study from South Africa. *Water Supply*, 23(6), 2447-2465.
4. Haj-Amor, Z., Araya, T., Kim, D. G., Bouri, S., Lee, J., Ghiloufi, W., ... & Lal, R. (2022). Soil salinity and its associated effects on soil microorganisms, greenhouse gas emissions, crop yield, biodiversity and desertification: A review. *Science of The Total Environment*, 843, 156946.
5. Araya, T., Mlahlwa, A. V., Elbasit, M. A. A., & Newete, S. W. (2022). The impact of Tamarix invasion on the soil physicochemical properties. *Scientific Reports*, 12(1), 5750.

## Fun Fact

Associate Editor: South African Journal of Plant and Soil