

Southern Soils are prone to degradation associated with low organic matter. These soils are highly susceptible to erosion, nutrient leaching/runoff, and compaction that increases the risk of nutrient pollution to ground and surface waters. All these factors can reduce soil quality, productivity, and profitability for farmers in the region.

Our primary mission is to develop conservation systems that will improve soil quality, conserve natural resources, and increase production efficiency, considering input costs and profitability.

Our multi-disciplinary research approach will benefit producers directly through equipment advances, management techniques to maximize benefits associated with improved soil quality, and economic comparisons to illustrate profitability associated with these systems.

Agronomy

Develop, evaluate, and provide decision support for cropping systems that increase soil organic matter accumulation, enhance productivity, and maximize profitability of degraded southeastern soils.



Soil Science

Develop management systems and technologies that mitigate economic risks from short-term droughts for southeastern producers.



Weed Science

Determine optimum herbicide management intensity, cover crop biomass, and soil applied herbicide placement for weed control and yield in conservation agriculture corn, cotton, soybean, and peanut.

