

Texas Tech University, Plant and Soil Science Spring Seminar 2024

Title: Agricultural intensification using regenerative practices

Speaker: Katie Lewis, Ph.D.

Location: Bayer Plant Science Building, Room 118 (Texas Tech University)

Date/Time: Thursday, Feb 22nd / 12:00 – 1:00 PM

Abstract

In the TX and OK Southern Great Plains (SGP), limited research has focused on integrating regenerative practices such as livestock grazing, cover cropping, and conservation tillage into cotton/wheat cropping systems. The research being presented is the first effort to evaluate a systems approach to regenerative agriculture across TX and OK semi-arid ecoregions. Project investigators believe the research addresses multiple long-term goals identified by producers across the region, and include: 1) increasing agricultural productivity, profitability, and sustainability by providing regenerative practice recommendations through education/outreach; 2) supporting needed changes to cost-share program policies regarding the incorporation of livestock into regenerative agricultural systems involving cover crops; and, 3) increasing adoption of regenerative practices in the SGP and improve water use efficiency, environmental conditions, and socioeconomic performance. This project will provide foundational information to increase agricultural production and profitability of multiple commodities on a per acre basis while reducing the environmental footprint. Extension and education opportunities are being developed and disseminated openly across the SGPs and nationally.