NC STATE UNIVERSITY

Department of Crop and Soil Sciences

College of Agriculture and Life Sciences

Systems in North Carolina

Wayne Roper, Deanna Osmond, Joshua Heitman, Michael Wagger, Chris Reberg-Horton

Background

- A current focus in soil research is **'soil health'**, which is the ability of soil to function as a sustainable vital ecosystem.
- Several physical, chemical, and biological soil properties have been referenced as indicators of soil health.
- The utility of these indicators for soil management recommendations in different agronomic systems is not yet clear.
- More research is needed to determine the significance of soil health indicators in quantifying the effects of agronomic practices on soil properties and productivity.

Objectives

- 1) Determine if soil health indicators can distinguish between cropping and tillage systems in North Carolina.
- 2) Compare soil test results and their implications for soil management recommendations.
- 3) Assess relationships between soil health testing and crop yields.

Methods and Materials

Research Trials

The study consisted of long-term research trials that represented mountain, piedmont, and coastal plain soil types of North Carolina









Soil Health Testing does not Differentiate Long-term Agronomic



and all research station personnel

Contact: Wayne Roper wrroper@ncsu.edu

3230 Williams Hall





