## KEEPIN' IT COVERED IN THE CAROLINAS

NC Coastal Demonstration – see ncsoilwater.org for Mountain & Piedmont regions!

Controlling soil erosion and weeds infestations are a concern for producers in the Coastal Plain region of North Carolina. Winter cover cropping could help, but what type of cover crop is most suitable? Are mixtures of cover crops beneficial? Could multi-species cover cropping improve soil health?

Mr. Jeffrey Tyson

in Nash County

NC wanted to

explore these

questions

At the end of the soybean growing season in 2015, cover crops were sown:

- a. broadcast onto green beans on Oct 20
- b. drilled after harvest on Dec 8
- c. drilled after harvest on Jan 8

Multi-species cover crop mix in fall 2015: 54 lb/A rye, 15 lb/A Austrian winter pea, 8.5 lb/A crimson clover, 6.5 lb/A tillage radish, 1 lb/A woolypod vetch

Compared with no cover and single-species cover of Abruzzi rye (100 lb/A)



Multi-species cover crop 1179 lb/A Cover Crop Biomass
April 3, 2017

No cover crop 580 lb/A

## **Lessons learned**

manner.

Soil properties were not affected by multi-species cover cropping in this on-farm demonstration. Multiple years of evaluation will likely be needed to fully assess changes in soil properties.
 Side-by-side strip trials were useful to make evaluations and to

demonstrate the performance of

cover crops in a systematic

Multi-species cover crop mix

Fall 2016:

40 lb/A rye, 10 lb/A crimson clover, 2 lb/A daikon radish







**USDA** 







