

SCSB Final Report

General Information

Principal Investigator(s) Name(s): Jonathan Croft and Joe Varn

Organization: Clemson University Extension Service

Date: January 7, 2019

Quarter: Final

Proposal Information

Title: Asian Soybean Rust Monitoring System

Amount Expended to Date: At this time, we have submitted expenditures in the amount of \$1,812.00.

Project Summary

The projects overall objective and goal was to implement a monitoring system for Asian Soybean Rust (ASR) in the Southwestern part of South Carolina. The monitoring system is intended to be a safety net that will help identify when ASR is present in SC, allowing soybean growers ample time to make management decisions for their farms.

For the 2018 season, sampling of monitoring plots started during the week of July 20th and ended October 15th. Agents were sampling 6 to 10 fields located across the southwestern counties of SC, examining 75 leaves from each location. ASR was detected in SC on September 28th by, Joe Varn, in Bamberg County. It was the week of October 8-12th before soybean rust was identified in other counties in SC. The other counties with ASR were Barnwell and Orangeburg Counties. Due to identification of ASR being late in the growing season in 2018 we did not recommend any fungicide applications for the control of rust.

Key Performance Indicators

A weekly summary of the sampling results was emailed to soybean producers, ag industry professionals, University and Extension personnel as planned. The sampling and summary emails began on July 20, 2018, we did miss one week while Extension offices were closed due to potential impact of hurricane Florence. There are approximately 500 individuals on the email distribution list used for the weekly emailing of the Soybean Rust News Note.

Next Steps

We plan to apply for funding for ASR monitoring system for the 2019 growing season. At this point the milder winter that we have been experiencing could lead to earlier incidence of Asian Soybean Rust in SC in 2019.

Additional Information

According to FSA certified planted acres there were 366,220 acres of soybeans planted in South Carolina during 2018. Due to the late season arrival of ASR, we did not recommend any fungicide applications for the control of ASR in 2018. At a conservative cost of \$10 per acre for a foliar fungicide application, if growers followed our recommendation to not apply a foliar fungicide to soybeans there would have been a savings of \$3,662,200 across the state.

Prior to submission, reports should be saved as a pdf document using the following naming convention; 2019Date(yrmoday)_(PI Last Name)_(Abbreviated Proposal Title)_Final.