

SC Soybean Board Final Report

General Information

Principal Investigator(s) Name(s): Bhupinder Singh Farmaha

Organization: Clemson University

Date: January 10, 2023

Quarter: 4

Proposal Information

Title: On-farm Evaluation of Soybean Potassium Fertilizer Recommendations in South Carolina

Amount Expended to Date: \$18,662

Project Summary

This was the second year of the project. All the project field activities are completed that include harvesting test plots, taking soil samples, and collecting other datasets. Yield response results will be presented at the board meeting. We have yet to analyze soil samples in our lab.

The management details of 2022 field activities are provided at the end of the table.

Key Performance Indicators

Conducting on-farm trials always involves more challenges than working at the RECs because of the logistics involved and coordinating with farmers, especially when they are in a time crunch. However, we successfully ran all the trials by communicating closely with producer partners. This project also allowed several South Carolina undergraduate students to explore the production ag world and motivate them to higher education in ag disciplines. The preliminary analysis of yield data shows that test plot yields were compared to the yield levels of that area.

Next Steps

The next step is to complete soil analysis and link this data with yield data to improve the prediction of potassium fertilizer applications. We will be running this study third and last time in 2023 with five more producer partners.

Additional Information

Yield response results will be presented at the board meeting.

Management	Dean Hutto	Rachael sharp Irrigated	Rachael sharp Dryland	Joe Alvin	Wes Woodard	Pee Dee REC	EREC F16
	Corn	Corn	Corn	Corn	Corn	Corn	Corn
Planting Date	3/30/2022	3/29/2022	3/29/2022	5/3/2022	3/29/2022	3/30/2022	4/22/2022
Row width	30 inches	36 inches	36 inches	30 inches	30 inches	30 inches	38 inches
Seeding Rate and depth	22,500 & 1.5-2inches	27,448 & 1.5 inches	19,602 & 1.5 inches	32167 & 1.5 inches depth	24,000 & 2 inches	35,000 & 2 inches	32,000 & 2 inches
Variety	010716	P1464VYHR		DKC7001	SKC 65_20	Dekalb 6968	P2042VYHR
Treatment	4/26/2022	4/20/2022	4/20/2022	5/12/2022	5/5/2022	5/23/2022 (V5)	5/11/2022