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2017
GA

Annual Report + Summary

NATIONAL PEANUT BOARD/SOUTHEAST PEANUT
RESEARCH INITIATIVE
~~QUARTERLY PROGRESS REPORT FOR WORK~~
DONE UNDER RESEARCH AGREEMENT

Quarter ending

June 30, 2018

INSTITUTION: University of Georgia

PROJECT TITLE: Economic Analysis of the Production Research for the Southeast Peanut Producers

RES. AGR. NO.: 26-31-RE670-444 PROJECT LEADER:
GACCP Budget No.: 191 Dr. Adam N. Rabinowitz

EXPIRATION DATE: June 30, 2018 NPB CONTACT: Bob Parker/Maria Mehok
NPB Budget No.:

REPORT OF PROGRESS:

This project was designed to provide an economic analysis of selected research projects funded by the Southeastern Peanut Research Initiative (SPRI).

Data was obtained from Dr. Porter on the irrigation scheduling of peanuts. We performed an economic analysis that included an analysis of management and equipment costs, net revenue, and water-use efficiency. Outcomes are dependent upon peanut variety, weather patterns, and economic objectives. Irrigator Pro and Sensor Based Systems typically outperformed other methods on all analyses. Presentations with these data have taken place at the Georgia Peanut Farm Show, Georgia Farm Bureau Meeting, Field to Market Meeting, American Peanut Research and Education Society, and Southern Extension Agricultural Economics Meeting.

We have generated an educational tool for growers to use as an assessment of economic impacts of the Rx program. This tool enables growers to determine their expected adjusted net revenue given their risk level. Data was also obtained on fungicide trials for empirical analysis where we estimated a predicted change in yield given a change in program treatment while controlling for the level of risk, irrigation type, peanut variety, and annual effects. This has been presented at the December 2017 Peanut Rx meeting, the February 2018 Southern Agricultural Economics Association meeting, the University of Georgia research symposium in Athens, GA in April 2018, and the 4th Annual Emory Cheek Research Poster Symposium at UGA-Tifton. The research assistant working on this project also received an award for outstanding student research.

Economic analysis has been completed for research data provided by Dr. Tubbs on peanut rotation trials. These data span 5 years of research trials covering a variety of rotation schedules involving peanuts, cotton, corn, and vegetables with differing levels of nematicide treatments. Our findings indicate that the corn, corn, peanuts rotation produced the highest adjusted net revenue for peanuts when treated with a moderate nematicide.

Data was obtained from Dr. Abney to provide economic analysis for threecornered alfalfa hopper. In particular, an economic injury threshold level is being established. Work on this project is still ongoing and will be completed by the end of calendar year 2018.