

Research Farm Project Outline

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Please contact Kelly Eisele at (706) 542-2151 or agresch@uga.edu with any questions.

Required fields marked by an *

General Information

Title *

Implications of Aphid Management on Incidence and Sever

Participating Research Farm *

Southwest Georgia Research and Education Center, Plains, Ga. ▼

Dates

Start Date *

04/01/2020

End Date *

12/01/2020

CAES Principle Investigator (Required. If not populated, a non-CAES Principle Investigator must be entered.)

Roberts, Phillip Marion ▼

CAES Secondary Contact

Toews, Michael D ▼

Commodity/Discipline

Commodity *

Cotton ▼

Other/Secondary Commodity

Discipline *

Entomology ▼

Other/Secondary Discipline

(Select One) ▼

Primary Area to Which the Project Pertains *

Research Extension Teaching

Summary of Project

Justification * (Maximum of 250 words)

Cotton leafroll dwarf virus (CLRDV) is vectored by cotton aphid and poses a significant threat to cotton production in the U.S. CLRDV is regarded as the second most damaging virus disease to commercial cotton worldwide and is the first virus reported to cause yield loss in the southeastern U.S. CLRDV was initially

Objectives * (Maximum of 250 words)

The overarching goal of this project is to devise effective management strategies for reducing crop losses caused by CLRDV in the southeast that promote the economic and environmental viability of the cotton industry. Specific project objectives include: 1) characterizing aphid population dynamics and 2) evaluating the influence of

Scientist and Station Responsibilities

Attachments

Treatment List Treatment List.docx Delete	Plot Map Plot Map.xlsx Delete	Calendar Choose File No file chosen
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Project Involves Plants/Animals

Use the checkboxes below to indicate plant or animal project (if "animal" or "plants and animals" is chosen, an AUP number must be entered in order for the form to send.)

Plants **Animals**

Plant Science Projects

General Plant Project Info

- By checking this box, the principle investigators confirm that all of the resulting plant material is safe for livestock consumption and/or consumer markets.
- By checking this box, the principle investigators confirm that all or some portion of the resulting plant material must be destroyed.

Experimental field name, designation, or building name (will be populated by superintendent at a later time)

Cotton Aphid and CLRDV

Responsibilities By Task

(Where applicable, please provide detailed instructions for the REC staff in the boxes below. If your experimental protocol will require deviation from normal production practices and/or timing, please indicate that as well.)

Task	Special Instructions	Responsible Party
Land Preparation		<input type="radio"/> Project Leader <input checked="" type="radio"/> Center Staff <input type="radio"/> Both <input type="radio"/> N/A

Task	Special Instructions	Responsible Party
Fertilizer		<input type="radio"/> Project Leader <input checked="" type="radio"/> Center Staff <input type="radio"/> Both <input type="radio"/> N/A
Planting	<p>Please note there are two planting dates. The first target planting date will be May 1 and the second planting date will be June 1.</p>	<input type="radio"/> Project Leader <input type="radio"/> Center Staff <input checked="" type="radio"/> Both <input type="radio"/> N/A
Pest Control (include cultivation, pre-, post-, in-season pesticide applications, etc.)	<p>Center staff to provide management of weeds and diseases. DO NOT apply insecticides in this trial.</p>	<input type="radio"/> Project Leader <input type="radio"/> Center Staff <input checked="" type="radio"/> Both <input type="radio"/> N/A
Alley Maintenance		<input type="radio"/> Project Leader <input checked="" type="radio"/> Center Staff <input type="radio"/> Both <input type="radio"/> N/A
Staking/Dimensioning/Lay-Out	<p>Since two planting dates, we will need to carefully plan plot layout to accommodate planting, general production field activities, and harvest so that plots are not impacted during such activities. This can likely be accomplished by establishing larger than normal alleys at specific locations in the trial area.</p>	<input type="radio"/> Project Leader <input type="radio"/> Center Staff <input checked="" type="radio"/> Both <input type="radio"/> N/A
Plot/Treatment Identification (Flags, stakes, etc. / Must be removed at end of experiment)		<input checked="" type="radio"/> Project Leader <input type="radio"/> Center Staff <input type="radio"/> Both <input type="radio"/> N/A

Task	Special Instructions	Responsible Party
Irrigation (if applicable)		<input type="radio"/> Project Leader <input checked="" type="radio"/> Center Staff <input type="radio"/> Both <input type="radio"/> N/A
Data Collection (notes/samples/weather data)	Center staff please maintain records of field activities, inputs, and irrigation.	<input type="radio"/> Project Leader <input type="radio"/> Center Staff <input checked="" type="radio"/> Both <input type="radio"/> N/A
Harvest	Seedcotton samples will be processed at the UGA Microgin.	<input type="radio"/> Project Leader <input type="radio"/> Center Staff <input checked="" type="radio"/> Both <input type="radio"/> N/A
Post-Harvest		<input type="radio"/> Project Leader <input checked="" type="radio"/> Center Staff <input type="radio"/> Both <input type="radio"/> N/A
Sale and Final Disposition of Product(s) (follow appropriate crop destruct guidelines)	Certain plots will need to be destroyed due to excessive application of insecticides.	<input type="radio"/> Project Leader <input type="radio"/> Center Staff <input checked="" type="radio"/> Both <input type="radio"/> N/A

Special needs necessary to perform project

Two planting dates will require appropriate plot layout design.

Additional Responsibilities and Funding

Safety Precautions

Do not enter until REI expires following insecticide applications made by project leader.

Financial Support

Please enter the dollar amount (cash or value of in-kind contributions) allocated to Southwest Georgia Research and Education Center, Plains, Ga..

1000

Location where results will be published

Routing and Approval

The form will be routed electronically to the appropriate department or unit head, REC or Farm Superintendent, and finally the individual responsible for the REC (usually an assistant or associate dean). The form can be returned at any approval level with requested changes. The form submitter will be notified by e-mail once the project has been approved.

Station Superintendent

Scott Rogers ▼

Superintendent Comments

(None)

Department Head

S. Kris Braman ▼

Office of Research

Robert N. Stougaard ▼

By submitting this form, the principal investigator verifies that all relevant University Guidelines are being met and project protocols were approved by the relevant committees as appropriate (radiological safety, biological hazards, animal use).

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