CITRUS ADVANCED TECHNOLOGY PROGRAM

QUARTERLY & FINAL PROGRESS REPORT FORM: Control of Citrus Greening, Canker & Emerging Diseases of Citrus

▶PROJECT QUARTER END December 2022 ● *Quarterly Report* ○ *Final*

Proposal Title

Quarterly Report 1(Due 1/15/2023) - Project # 21-025: Transgenic capable field site to assess HLB-resistant and other improved citrus

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
07/25/2023	Citrus Research and Development Foundation	Plant Improvement

ABSTRACT (Executive Summary-public report-do not disclose proprietary information or intellectual property)

1. Please state project objectives and what work was done this quarter to address them:

The primary objective of Project # 21-025 is to address the devastating impact of huanglongbing (HLB) on the Florida citrus industry. The disease has caused significant economic losses and threatens the sustainability of citrus production in the region. The project aims to test and validate HLB-resistant transgenic and non-transgenic citrus materials in a secure field site at the USDA/ARS Picos Research Farm. This will enable researchers to evaluate the efficacy of various strategies to combat HLB and its psyllid vector, with the ultimate goal of sustaining economic citrus production in HLB-endemic regions.The research team continued to maintain and collect data from ongoing field trials. The 10-acre test site at the USDA/ARS Picos Research Farm was secured and equipped for the upcoming experiments. The team provided pre-planting planning assistance to researchers to ensure compliance with transgenic regulations and offered annual transgenic-control training sessions.

2. Please state what work is anticipated for next quarter:

Routine sample and data collection will continue to track the CLas titer and HLB progression in the test trees. Researchers will be granted access to the site for data collection and data analysis purposes.
The team will conduct inspections and maintain compliance with the APHIS Biotechnology Regulatory Services (BRS) permits. Farm staff and the employed technician will receive further training on handling transgenic field trials.

3. Please state budget status (underspend or overspend, and why):

This quarter, there was an underspend of the allocated budget due to changes in PI and leadership at USHRL. The change in personnel led to some delays in the implementation of field trials and preparation of the test site. However, the project team managed to reallocate the budget effectively and continued to make progress in planning and preparing for the upcoming experiments.

4. Please show all potential commercialization products resulting from this research, and the status of each:

PI First Name Robert

PI Last Name Shatters

Email matthew.mattia@usda.gov

Phone 732-610-2880

Organization USDA,ARS

Sponsor Project Number Project # 21-025

Project Duration (years) 3 *Year of Project* 1

% Completion of Objectives (FDACS requirement) 0.00%

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.