CITRUS ADVANCED TECHNOLOGY PROGRAM

QUARTERLY & FINAL REPORTS: Control of Citrus Greening, Canker & Emerging Diseases of Citrus

SELECT PERIOD September 2015

(●) *Quarterly Report* ( ) *Final*

Proposal Title

Treatments to combat initial HLB infection in young citrus trees

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
10/1/15	Citrus Research and Development Foundation	Epidemiology and Cultural Control

REPORT UPDATE (500 words-It is not necessary in this public report to disclose your institution's proprietary information or intellectual property.)

This is a 3 year study to test 5 soil applied treatments to prevent HLB infection in newly planted citrus trees and also the test the ability of treatments to maintain tree health should they become infected. The materials are to be
Product A – Numbered Compound.
Product B – Aliette
Product C – Serenade Soil
as well as 1 combination of A+B. The impact of treatments on new tree health, foliar nutrition, disease rating, HLB status, root density, subsequent yield and fruit quality will be evaluated. The trial will be located at a single Florida site and will incorporate well-managed trees from a commercial nursery in a new planting. This trial will be large enough to be statistically significant with treatments within label guidelines for products B and C which are registered for citrus. Our main responsibility is to examine annual root density and Las population in the root in year 2 and year 3.
Product C contained Bacillus subtilis as active ingredient, so the root colonization and survival rate in soil were tested under greenhouse conditions. 15 ml of product C was applied to Valencia seedlings. The roots and rhizosphere soil were harvested at 1dpi (days post inoculation), 7 dpi and 15 dpi for root colonization and survival analysis. The analysis for other products is ongoing.
Product A was not available, product B did not contain bacteria.
Based on the proposal, the root density and bacterial survival rate will be determined at end of 2015 or at beginning of 2016. No samples were received for testing in this report period.

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Project Number 934.1C

Project Duration (years) *Year of Project*

Total Funds (current year)

Form PR-12 Quarterly Reports **SUBMIT REPORT**

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.