CITRUS ADVANCED TECHNOLOGY PROGRAM

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

▶ INSTRUCTIONS

(●) *Quarterly Report* ( ) *Annual Report* ( ) *Final*

Required: What is the "headline" for this report (e.g. a one-sentence "newspaper headline" describing what you accomplished)

Support for Southern Gardens Diagnostic Laboratory

Proposal Title

Support for the Southern Gardens Diagnostic Laboratory

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
10/10/11	Citrus Research and Development Foundation	Pathogen/Disease Detection

REPORT UPDATE (500 words; summarize your accomplishments)

For the quarter beginning July 1, 2011, the SGDL has processed 11,866 samples. The breakdown of the samples is as follows: growers 6,810, psyllid samples 2,162, research samples 2,486 and 408 for Southern Gardens.

Included in the research samples are samples that were part of a cooperative project between USDA-ARS (Dr. David Hall), CRB (Citrus Research Board in CA, Dr. MaryLou Polek) and SGDL. The purpose of the study was to determine what storage methods should be used for psyllids being tested for the presence of CLas. Although many labs throughout the world are using psyllid testing in advance of the discovery of HLB symptoms, there are essentially no studies to document how the psyllids should be stored prior to testing in order to provide the most accurate data possible. Thus this study will provide valuable documentation for future and past HLB testing efforts. Preliminary results were presented at the Second Annual Citrus Health Response Plan meeting in Denver, October 2011 and a publication in a refereed journal will be forthcoming.

As mentioned in the previous report, the SGDL was in the process of validating a robotic DNA extraction procedure. This validation is now complete and all DNA extractions (vegetative material and of psyllids) are now being done robotically. This will result in a lowering of cost, more efficient operations in the lab, and hopefully a more robust assay.

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Organization United States Sugar Corporation

Contract Number 10-086-108

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

Total Funds (current year) $199,006.00

SUBMIT REPORT

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.