Florida Citrus Advanced Technology Program

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

Instructions Complete the fields based on your project specs. When finished, save the form to your local disk using a unique name. Then, go to **http://research.fcprac.com**, and log in with your user name and password using Researcher Login in the lower left. Find this project title and click on **Submit a Report**. Update your profile information if needed, then upload this report as directed.

2009-2010 REPORT	CATEGORY (drop-down)	TODAY'S DATE (m/d/yr)
(●) *Quarterly Report* ( ) *Annual Report* ( ) *Final*	Management	7/2/09

WHAT IS THE "HEADLINE" FOR THIS REPORT (e.g. a one-sentence "newspaper headline" describing what you accomplished)

Efficacy studies of interplanting citrus with guava as a control strategy for HLB are under way.

TITLE and CONTACT INFORMATION

Proposal Title Efficacy of interplanting citrus with guava as a control strategy for huanglongbing.

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Phone 772-462-5883	*Project Duration (years)* 1 *Year of Project* 1
Organization USDA, ARS	*Total Direct Funds (current year)*

REPORT UPDATE (650 words; provide details about your headline)

Disease control of citrus huanglongbing (HLB) by interplanting with guava. HLB is the most devastating disease of citrus worldwide and presently threatens the existence of the citrus industry in Florida. In Vietnam guava has been shown to be an effective deterrent to HLB. Guava trees, (Vietnamese white cultivar) were propagated and grown to appropriate size. Two nursery sites, a guava protected citrus nursery versus and unprotected nursery, have been established. Disease free, PCR-negative citrus trees (2 sweet orange and 1 grapefruit cultivars) were located in the protected and unprotected plots in June 2009. Trees will be assayed for HLB every 60 days. Psyllid populations will also be monitored.

Guava plantings have also been established at three field locations in Florida. Two of these are commercial plantings with collaborators in Southern Gardens Citrus and Consolidated Citrus totaling over 120 acres. Citrus will be interplanted with the guava later this Summer and Fall of 2009 in the commercial plantings. A third planting was established at the USDA, ARS in Fort Pierce, Florida and will be interplanted with citrus in late July early August 2009. The sampling of the plots and monitoring of the guava-effect research will commence immediately following interplanting with citrus and will be conducted every 3 months. Psyllid vectors will also be monitored within plots to document any repulsion of the vector due to guava. Data collection is presently ongoing.