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*	Genetics	4/15/10

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

Transgenic test site has recieved first trees.

TITLE and CONTACT INFORMATION

Proposal Title A secure site for testing transgenic and conventional citrus for HLB and psyllid resistance

Principal Investigator Ed Stover	*PI Last Name* Stover
Email ed.stover@ars.usda.gov	*FDACS Contract Number* 220
Phone 772-462-5951	*Project Duration (years)* 3+ *Year of Project* 1st
Organization USDA/ARS/USHRL	*Total Direct Funds (current year)* $93,049

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

As proposed, a transgenic test site has been prepared at the USDA/ARS USHRL Picos Farm in Ft. Pierce. A new 8 acre site has been bedded, supplied with irrigation, and a ground cover established. Several acres in the far NE corner have been prepared for Dr. Dawson's proposed field test of modified CTV expression vectors designed to produce anti-microbial peptides in citrus host plants. APHIS specified that Dr. Dawson's site be as far from existing commercial citrus groves as possible, and recommended the NE corner of the Picos Farm. There has been no recent word on the progress of APHIS approval for this project

Answers have been provided to numerous questions from regulators to facilitate field testing approval. Cooperators have been made aware that the site is ready for planting. Dr. Jude Grosser of UF has provided 300 transgenic citrus plants expressing genes expected to provide HLB/canker resistance, which have been planted in the test site. Trees were sprayed with microsprinklers throughout the winter freeze, and trees are unscathed. USHRL has a permit pending with APHIS to conduct field trials of their transgenic plants at this site. An MTA is now in place to permit planting of Texas A&M transgenics produced by Erik Mirkov.

Alphascents has agreed to provide an experimental pheromone attract/kill product Malex to disrupt citrus leaf miner (CLM). Our experience suggests CLM may significantly compromise tree growth where insecticides are avoided to permit ready transfer of Las by psyllids. CLM damage also compromises ability to view HLB symptoms.

Because of delays in getting funding and initiating this research infrastructure project, a no-cost extension has been requested and approved.