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)

Pesticide Testing Initiated on California ACP

Proposal Title

Optimizing Chemical Control of Asian Citrus Psyllid in California

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
4/7/12	California Citrus Research Board	Vector Management

REPORT UPDATE (500 words; summarize your accomplishments)

This is a cooperative research project between Co-PIs Joseph Morse, Jim Bethke, Frank Byrne, Beth Grafton-Cardwell, and Kris Godfrey. One objective is to coordinate with researchers working on chemical control of ACP in Florida, Texas, Arizona, and elsewhere. Towards that end, Morse and Godfrey participated in the Second Citrus Health Research Forum in Denver in October 2011 and we regularly stay in touch with other researchers conducting similar research.

We are rearing ACP in a contained greenhouse at the Chula Vista Insectary (San Diego County; about 6 miles north of the Mexican border) under permit (#2847) from CDFA . This permit clearly notes experimental protocols and procedures so that the work is done as safely as possible to minimize any chance of ACP escape. The facility is double padlocked, entry is restricted to trained project personnel, and used plants are disposed of only after 4 days of treatment in a -45°C freezer followed by 4 additional days of solarization before the double-bagged plants are disposed of.

To initiate the ACP colonies, we collected insects from an infestation in Boyle Heights on October 27, 2011 and transported them to Chula Vista under a second permit from CDFA. Both plants and ACP have been tested for HLB on a number of occasions by the USDA-certified CRB laboratory in Riverside.

The ACP colony struggled somewhat during the winter months but it is now building up nicely and our first trial was initiated 30 January 2012. To date, Dr. Byrne has run three trials evaluating the impact of imidacloprid on ACP, comparing our results to those published by Setamou et al. (2010). The first of these trials were done at Chula Vista and the latter two at UC Riverside. Dr. Byrne plans additional trials evaluating other neonicotinoids such as thiamethoxam and clothianidin.

Priorities for testing at the Chula Vista facility over the near future include a number of experimental products targeted for organic registration in comparison with organic and non-organic standards.

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Organization University of California, Riverside

Contract Number 5500-189

Project Duration (years) 4 *Year of Project* 2

Total Funds (current year) $78,941.00

SUBMIT REPORT

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.