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*	Other	7/30/09

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

UF/IFAS CREC developing citrus investment model to evaluate emerging solutions to citrus greening.

TITLE and CONTACT INFORMATION

Proposal Title An Economic Model to Evaluate Emerging Solutions to Citrus Greening

Principal Investigator Ronald P. Muraro	*PI Last Name* Muraro
Email rpm@crec.ifas.ufl.edu	*FDACS Contract Number* 00080262
Phone 863-956-1151 ext. 1203	*Project Duration (years)* 1 *Year of Project* 1
Organization UF/IFAS CREC	*Total Direct Funds (current year)* $50,000.00

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

PROJECT PARTICIPANTS: Ronald P. Muraro, Robert Allen Morris and Fritz M. Roka

This project is to develop an economic model to evaluate emerging management solutions to HLB/citrus greening as they are developed by other HLB researchers or industry representatives.
An Excel citrus investment model developed by UF/IFAS that uses the income approach to asset valuation is being modified to give it flexibilities to cover a range of potential variables needed to evaluate emerging HLB management technologies. The economic model has been designed so that cost, yield data, reset-replant strategies and annual tree loss rates specific to a particular grove situation can be entered by the user and override the default values of the Excel model.

Our initial focus of this project has been to update all the default cost, yields and tree lost rates of the Excel model. A user's guide has been written and should be available by September. The model in its current version has been provided to a few growers to field test.

Work has begun in modifying the citrus investment model so that it will adjust yields of remaining trees according to the number of resets that are replanted after trees are removed
(HLB, blight/decline, etc.). The approach is to allow remaining trees to grow and increase tree yields based on the total trees removed within the three tree age groups: 1-3 years old; 4-10 years old; and greater than 11 years old. Also, we are looking at an older UF/IFAS Excel citrus reset model to see if this could also be a tool for growers to use when deciding to replant trees in an HLB problem block.

Our next work on the Excel citrus investment model will be to add the ability to evaluate the new HLB management strategies being developed by other researchers. High density plantings can now be evaluated; what is needed is to decide how to incorporate the various psyllid control methods being field tested and the different tree nutritional programs being evaluated.