# 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 | 7/14/09 |

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

Ready for the fall 2009 experiments!

**TITLE and CONTACT INFORMATION**

*Proposal Title* Pre-Grading Fresh Citrus for Canker Prior to Dumping on the Main Packingline

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|---|---|
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| *Email* ritenour@ufl.edu | *FDACS Contract Number* 00070555 NAS 168 |
| *Phone* 772-468-3922, ext. 167 | *Project Duration (years)* 2 *Year of Project* 1 |
| *Organization* UF/IFAS | *Total Direct Funds (current year)* $34,709.00 |

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

Funds for this study were received on March 18, 2009. Since these experiments must take place early in the season when the fruit require degreened to meet market requirements, the bulk of the funds will be used on experiments in the fall and early winter when late rains result in pin-point lesions and washing the fruit may inhibit degreening operations. As part of another project, however, we have just built a research grading line that we will also use for this study that will allow evaluation of a number of washing treatments and other variables to develop optimum conditions for grading fruit for canker lesions. Furthermore, preliminary results that supported the current project were presented at the FSHS meetings in June 2009 and a manuscript submitted for publication in the FSHS proceedings. These results showed that inhibition of degreening was significantly less when fruit were washed for only ~15 seconds on a high-pressure washer with brushing compared to longer (1 to 2 min) brush washing treatments. With this information, we will test that ability of even shorter wash treatments or wash treatments without brushing (i.e., only sprays of high pressure water) to clean fresh citrus enough for adequate grading for defects and citrus canker lesions. The variables that will be evaluated include different methods of washing, coloration of the harvested fruit, required degreening time, cleanliness of the fruit, presence of other peel markings (i.e., windscar, melanose, etc.), speed of fruit travel, lighting conditions, the color of the rollers, width of the grading area, and number of graders per unit area.