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)

LV sprays are more effective at low winds and high humidity

Proposal Title

Evaluation and development of effective ultra low volume spray technologies for management of the Asian citrus psyllid

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
4/21/11	Citrus Research and Development Foundation	Vector Management

REPORT UPDATE (500 words; summarize your accomplishments)

The data pertaining to low volume field trials of the 2009 and 2010 seasons were analyzed to establish the relationship between the weather parameters and efficacy of the Asian citrus psyllid (ACP) control. Throughout the trials, application time wind speed varied from 0.9 – 5.9 m/s and relative humidity from 87.6 to 91.3%. Mortality of the adult ACP at day-3 was not correlated with the humidity, but was significantly correlated with humidity at day-28, i.e., higher humidity resulted in better residual ACP control. Considering both the day-3 and day-28 efficacy results, wind speed did not appear to have a meaningful correlation with ACP control. Furthermore, the control of ACP nymphs was not affected significantly by the weather parameters. Air temperature at the time of application did not have a significant effect on mortality of either nymph or adult ACP. For the five top ranked treatments, the lowest relative humidity was 91.5% and the highest wind speed 1.8 m/s. The most effective application against both life stages occurred during meteorological conditions of 94.5% relative humidity and 0.9 m/s ambient wind speed. Data analysis will be continued to investigate the effect of post-treatment weather conditions on residual control of psyllids.

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Contract Number 184

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

Total Funds (current year) $77,572.00

SUBMIT REPORT

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.