CITRUS ADVANCED TECHNOLOGY PROGRAM

QUARTERLY & FINAL REPORTS: Control of Citrus Greening, Canker & Emerging Diseases of Citrus

▶ SELECT PERIOD March 2014

○ *Quarterly Report* ● *Final*

Proposal Title

Strategies to minimize growth flushes of mature citrus trees with pruning practices and PGRs

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
4/16/14	Citrus Research and Development Foundation	Vector Management

REPORT UPDATE (500 words-It is not necessary in this public report to disclose your institution's proprietary information or intellectual property.)

Applications of PGRs to container-grown citrus trees affected the biology and behavior of the Asian citrus psyllid. In greenhouse and growth camber experiments, prohexadione and mefluidide applications to trees reduced ACP fecundity and survivorship, whereas uniconazole affected fecundity and paclobutrazol affected survivorship. These PGRs did not affect adult ACP weight, except when paclobutrazol was applied. Dikegulac appeared to inhibit ACP egg laying, but this was likely due to phytotoxicity. Oviposition was delayed and rate was lower on PGR-treated trees, but chlormequat under greenhouse conditions had an effect. The effect of PGRs on ACP did not appear to be due to growth retardation or specific toxicity of the materials, suggesting a yet undefined effect on plant physiology that altered host quality.

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Organization CREC

Project Number 204

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

Total Funds (current year) $146,741.00

Form PR-12 Quarterly Reports SUBMIT REPORT

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.