



ASIAN CITRUS PSYLLID CONTROL WITH PREV-AM®

TARGET	Asian citrus psyllid	CROP	Citrus (<i>Benton</i>)	LOCATION	Apopka, FL
TRIAL DATE	January – March 2012	RESEARCHER	Dr S. Arthurs, University of Florida-IFAS		

APPLICATION

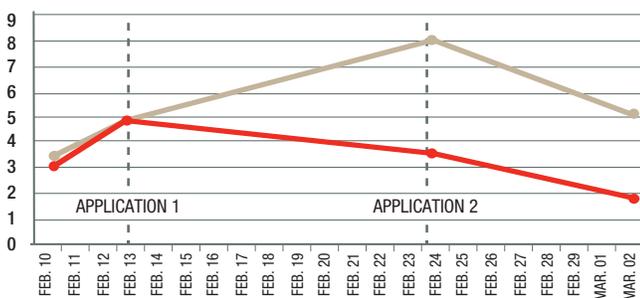
The study was a randomized block design with four replicates using citrus cv. Benton inside insect proof cages (2' x 2' x 2') in a greenhouse. Plants were pruned and fertilizer added to create new 'flush'. Two weeks later plants were infested with 20 adult Asian citrus psyllids. Foliar applications of PREV-AM were made 10 days later (Feb 13) with a second application on Feb 24, 2012. Foliage was sprayed to run off (38 ml per plant) with a 1 gal FloMaster hydraulic sprayer. The untreated control was sprayed with water + Tween 0.05%. Numbers of infested terminals per plant and live Asian citrus psyllid on five randomly selected terminals per plant were counted weekly starting immediately prior to the first application. Plants were destructively sampled after four weeks to count total psyllid populations.

RESULTS

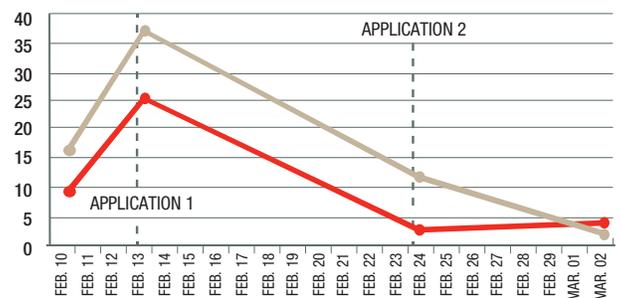
The induced flush ensured oviposition and many Asian citrus psyllid nymphs were present when treatments were first applied with subsequently large numbers of 2nd generation (F1) adult Asian citrus psyllid in control plants on the March 2 sample. PREV-AM (applied at 0.3% v/v) had clear insecticidal effects. The number of infested terminals were significantly reduced in the plants treated with PREV-AM on the last two sampling dates. The number of immature Asian citrus psyllid per infested terminal was reduced by PREV-AM on the penultimate sampling date. The major impact was seen in fewer F1 adults, i.e. 82% reduction in Asian citrus psyllid adults per infested plants treated with PREV-AM. The final plant counts showed an average of 45.0 Asian citrus psyllid in the plants treated with PREV-AM compared with 215.5 in control plants (a 79.1% reduction). These counts showed only 5.8 adult Asian citrus psyllid in the plants treated with PREV-AM compared with 173.3 in control plants (a 96% reduction). **Based on these reductions PREV-AM can be an important component in managing Asian citrus psyllid in citrus groves.**

■ UNTREATED ■ PREV-AM (0.3% v/v)

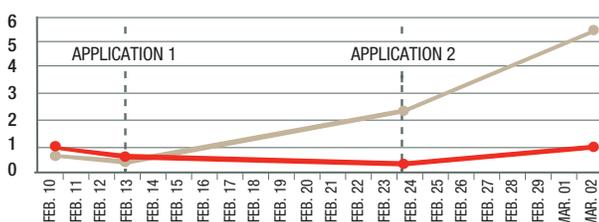
NUMBER OF ASIAN CITRUS PSYLLID INFESTED TERMINALS / PLANT



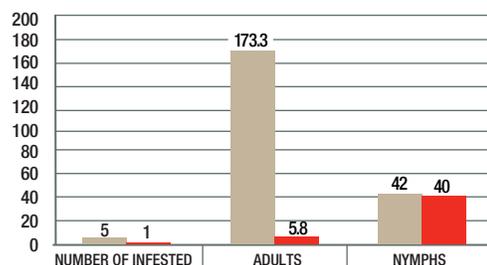
NUMBER OF ASIAN CITRUS PSYLLID NYMPHS / INFESTED TERMINAL SHOOT



NUMBER OF ASIAN CITRUS PSYLLID ADULTS / INFESTED TERMINAL SHOOT



FINAL DESTRUCTIVE PLANT COUNTS



P.PSYLLID
USA.12.463

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