

ABSTRACT

THE ASIAN WOOLLY HACKBERRY APHID, *SHIVAPHIS CELTI* DAS (HOMOPTERA: APHIDIDAE), AN INTRODUCED PEST IN CALIFORNIA

The Asian woolly hackberry aphid, *Shivaphis celti* Das (Homoptera: Aphididae), was first detected infesting *Celtis* species in California in 2002. The copious honeydew produced by the aphid and the black sooty mold it promotes are nuisances that require treatment action. The development of an effective management program for the pest required study of the aphid's biology, natural enemies, and control options as well as an effective monitoring technique. Aphid and predator populations were tracked for two seasons and were found to dip during the hottest part of the summer. Predation by Coccinellidae and Chrysopidae was observed, but no parasitization was reported. A method of monitoring honeydew production was found to consistently and efficiently reflect aphid populations and may be used to define treatment thresholds. The soil applied systemic insecticide imidacloprid provided effective season long aphid control in field situations.

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