

Natural Enemies of the Pear Psylla *Cacopsylla pyri* in Treated vs Untreated Pear Orchards in Antalya, Turkey

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Populations of pear psylla, *Cacopsylla pyri* (L.) (Rhynchota: Psyllidae), and its natural enemies were sampled on pears in Antalya province during the years 2000–2002. Thirty-two species of predators and three species of parasitoids were detected to be associated with *C. pyri* in Antalya province. The heteropterans (especially anthocorid species) were the most abundant predator group. Among the anthocorids, *Anthocoris nemoralis* (Fabricius) (Heteroptera: Anthocoridae), whose population was closely related to the dynamics of the pear psylla population, was generally the principal antagonist of *C. pyri*. Other species recorded during the study were the mirid *Deraeocoris* spp., the chrysopid *Chrysoperla carnea* L., and many coccinellid species. Although these predators are polyphagous, as are the *Orius* species, their populations were related to the psylla fluctuations. Among the parasitoid complex belonging to the order Hymenoptera, the encyrtid *Trechmites psyllae* (Ruschka) was the only primary parasitoid. Two hyperparasites, viz., *Syrphophagus mamitus* (Walker) and *Pachyneuron aphidis* (Bouché) (Encyrtidae and Pteromalidae, respectively), were detected in the surveys. Also, this study revealed new information concerning the pear psylla parasitoid complex in Turkey. While *T. psyllae* and *S. mamitus* are new records to Turkish parasitoid fauna, *C. pyri* is a new host record for *P. aphidis*. The population development and abundance of pear psylla and its natural enemies, as well as the parasitization rates in treated and untreated pear orchards, are presented here.

KEY WORDS: *Cacopsylla pyri*; natural enemies; parasitoids; predators; Turkey.

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