



Two new genera and species of Eriococcidae (Hemiptera: Sternorrhyncha: Coccoidea) with new data on the family in Turkey

M. BORA KAYDAN¹ & FERENC KOZÁR²

¹Plant Protection Department, Faculty of Agriculture, Yüzüncü Yıl University, Van, 65080 Turkey. E-mail: borakaydan@yyu.edu.tr

²Plant Protection Institute, Hungarian Academy of Sciences, Herman Ottó út 15. 1022 Budapest, H-1525 P.O.Box 102, Hungary.
E-mail: h2405koz@ella.hu

Abstract

Two new genera, *Borchseniococcus* **gen. nov.** and *Kotejacoccus* **gen. nov.**, and two new species, *B. duzgunesae* **sp. nov.**, off an undetermined plant, and *K. turcicus* **sp. nov.**, off *Quercus* sp., are described in the family Eriococcidae from Turkey. In addition, new faunistic data on 11 other eriococcid species from Turkey are given. In total, the number of scale insects (Hemiptera: Coccoidea) in Turkey is increased to 272, and the number of species in the family Eriococcidae to 25.

Key words: New records, *Acanthococcus aceris*, *Acanthococcus istresianus*, *Acanthococcus salicis*, *Acanthococcus saxatilis*, *Rhizococcus kondarensis*

Introduction

The World fauna of the family Eriococcidae is not well understood and the number of new genera and species is continuously increasing (Miller & Gimpel, 2000; Ben-Dov et al. 2006); similar trends were shown by Kozár & Drozdják (1986) for the Palearctic Region. Interestingly, no new genera were described between 1991 and 2000 but, in the period between 2001 and 2008, 10 new genera have been described, mostly from Australia, New Zealand and South America (Hardy & Gullan, 2007; Henderson, 2006, 2007a, 2007b; Hodgson & Miller, 2002; Kondo *et al.*, 2006).

In the Palearctic Region, 175 species of Eriococcidae are known. The last new genus in the Palearctic Region (*Neokaweckia*) was described by Tang and Hao (1995), but this was considered to be a synonym by Miller and Gimpel (2000). The richest country for eriococcid species in this Region is Russia with 43 species (Ben-Dov *et al.*, 2006). Considering the distribution data given in ScaleNet, the number of Eriococcidae species in the Mediterranean subregion, including Eurosiberian, Mediterranean and Irano-Turanian faunas, could reach one hundred species.

The scale insect fauna of Turkey was studied in detail by Bodenheimer (1953), who recorded 6 species of Eriococcidae. In the last species list of scale insects of Turkey (Kaydan *et al.*, 2007), among the 267 scale insect species recorded, only 20 eriococcid species were known in three genera, suggesting that some new genera and many new species are probably waiting to be discovered.

In the present paper, we follow the generic concepts of Borchsenius (1949), Danzig (1980), Kosztarab and Kozár (1988), Tang and Hao (1995) Tereznikova (1981), and Köhler (1998), which are based mostly on those of Signoret (1875).

The aim of this work is to describe two new genera and two new species from Turkey, and to give information on new faunistic records of the family Eriococcidae in Turkey.