

Bombini and Halictidae (Hymenoptera: Apoidea) Fauna of Afyonkarahisar Province of Turkey

Yasemin GÜLER¹

A. Murat AYTEKİN²

Fatih DIKMEN²

¹Plant Protection Central Research Institute, Gayret Mah., Fatih Sultan Mehmet Bulvarı, No: 66, 06172, Yenimahalle, Ankara/TURKEY, yaseminguler@gmail.com

²Hacettepe University, Faculty of Science, Department of Biology, 06800, Beytepe, Ankara/TURKEY, ama@hacettepe.edu.tr; dikmen@hacettepe.edu.tr

ABSTRACT

The faunistic study was conducted in 17 boroughs belonging to Afyonkarahisar province between 2006 and 2009. A total number of 809 bee specimens were examined. 80 species belonging to the Bombini (11) and Halictidae (69) were identified. 49 of the determined species are reported for the first time for the Aegean Region and 67 species of which are also reported for the first time for Afyonkarahisar province. The presence of *Evylaeus politus* (Schenck, 1853), *Nomiapis armata* (Olivier, 1812), *N. bispinosa* (Brullé, 1832), *N. squamata* (Morawitz, 1895), *Seladonia confusa* (Smith, 1853), *S. semitica* (Blüthgen 1955) and *S. vestita* (Lepeletier, 1841) in Turkey are documented in detail for the first time.

Key words: Apoidea, Bees, Fauna, Afyonkarahisar, Turkey

INTRODUCTION

Bees (Anthophila) are members of the superfamily Apoidea which contains also Spheciform wasps (Grimaldi & Engel, 2005). Apidae, Megachilidae, Colletidae, Andrenidae, Halictidae and Melittidae can be counted as the Palaearctic bee families (Michener, 2000). Bees in general have very important role in pollination of angiosperms and the greatest amounts of commercial crops are pollinated with the help of them (Dias *et al.*, 1999; Michener, 2007; Engel, 2001). Michener (2007) indicated that the total number of bee species in the world could have been 20,000. Moreover, by careful inspections this number would become higher than 30,000 (Michener, 2007). According to current data, Halictidae includes 3,500 species (Pesenko, 2007), while Bombini approximately 300 species (Aytekin *et al.*, 2007) in the world.

The faunistic studies on the pollinator bees of Turkey are limited. Because of that, there are no updated checklists of the bee fauna of Turkey except a web based atlas of bumblebees (Rasmont *et al.*, 2009). Moreover, the distribution data of the currently known species are insufficient. It is estimated that there are nearly two thousand bee species in Turkey (Özbek, 2002). However, these numbers were not confirmed by latest studies except for the Bombini and Megachilidae. The majority of the literatures

