

New Records of Aphidoidea from Turkey

Gazi GÖRÜR¹, Mustafa IŞIK¹, Başak AKYÜREK², Ünal ZEYBEKOĞLU²

¹Nigde University, Science and Arts Faculty, Department of Biology, 51100 Nigde, TURKEY,
e-mail: gazigorur@yahoo.com

²Ondokuz Mayıs University, Science and Arts Faculty, Department of Biology, Samsun,
TURKEY

ABSTRACT

Six aphid species were determined as new records for Turkey aphid fauna from far Eastern Black Sea Region of Turkey, where no studies have been carried out related with aphids. These species are *Adelges cooleyi*, *Adelges pectinatae*, *Aphis impatientis*, *Betulaphis quadrituberculata*, *Periphyllus aceris* and *Pterocallis albidus*. With these new records, the total number of aphid species in Turkey comes up to 446. The findings of the presented study and other recent studies showed that a higher number of aphid species is expected in Turkey due to particular ecological, geographical, climatic, continental position and floristic features of Turkey.

Key words: Adelges, Aphid fauna, new records, Turkey, Eastern Black Sea.

INTRODUCTION

The known world aphid fauna consists of about 4400 species (including adelgids). About 250 aphid species are serious pests around the world where they causing important losses of yield (Remaudière & Remaudière, 1997; Blackman & Eastop, 2006). Studies of the Turkish aphid fauna were limited up to last decade. Although preliminary studies were performed at the beginning of the 1900's, most of these studies was carried out by foreign researchers and only focused on very small parts of the Turkey. Çanakcıoğlu (1975) reviewed the previous studies and listed 258 species. Tuatay (1991, 1993) added about 30 species as new records and three additional species reported by Düzgüneş et al. (1982). Recently, many more studies have been performed and have added more than 40 new aphid species have been recorded (Toros et al., 2003; Görür, 2002; Özdemir et al., 2005). Remaudière et al. (2006) revised studies conducted on Turkey aphid fauna and listed about 417 species despite some controversies. Akyürek (2006) and Toper Kaygin et al. (2008) added 11 new records. Although there have been reasonable number of studies performed in some parts of Turkey, no studies organised have been organized in the study area so far. In this aspect this study aimed to find out aphid species of the far Eastern Black Sea region of Turkey where no detailed study was organized.