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## Additional faunistic notes on pentatomidae and scutelleridae (Heteroptera) in bingöl, elazığ and tunceli province (Turkey)

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### Abstract

In the Provinces of Bingöl, Elazığ and Tunceli were collected 13 species belonging to Pentatomidae family and 5 species belonging to Scutelleridae family. Among these species. *Vilpianus galii* (Wolff, 1802) and *Odontotarsus crassus* (Kiritshenko, 1966) specimens has been firstly recorded in East Anatolia fauna. They were rare species in the fauna. The behavior of all identified species in agricultural ecosystems needs to be observed.

**Keywords:** pentatomidae, scutelleridae, fauna, Turkey

### Introduction

The Scutelleridae and Pentatomidae family species of the Eastern Turkey are still little known. The Heteroptera fauna of eastern part of Turkey is still little known compared to the one of the other parts of Anatolia. Önder *et al.*<sup>[1]</sup> listed a total of 1526 heteropteran species/subspecies for the whole Turkey, in which they have included eastern species. The last work of Çerçi *et al.*, 2018 gave an good review of the studies realized in this area. The bugs specimens were collected around Elazığ, and Tunceli country (Eastern Turkey), in different localities.

### Material and Method

The main material of the study was classified as *Scutelleridae* and *Pentatomidae* species. They were collected with atrap on herbs. The samples were taken to the laboratory and diagnosed by the second author. They are preserved in the Collections of Fırat University, Engineering Faculty, Bioengineering Department, Elazığ, Turkey.

### Results

#### Scutelleridae

*Odontotarsus crassus* (Kiritshenko, 1966)

**Material examined:** Bingöl, Karlıova, Halifan village, 25.06.2008, 1 exc, leg. Ozgen.

**Distribution in Turkey:** European part of Turkey, Diyarbakır, Mardin (Göllner-Scheiding, 2006, Matocq *et al.*, 2014).

**Note:** First Record of East Anatoia.

*Odontotarsus plicatulus* (Horvath, 1906)

**Distribution in Turkey:** Amasya, Ankara, Elazığ, Gaziantep, Kahramanmaraş, Kayseri, Kilis, Mardin, Nevşehir, Siirt (Önder *et al.*, 2006).

**Material examined:** Bingöl, Karlıova, Halifan village, 25.06.2008, 2 exc, leg. Ozgen.

**Note:** First Record of Bingöl province.

*Odontotarsus robustus* (Jakovlev, 1883)

**Material examined:** Elazığ, Aşağıçakmak village, 16.05.2018, 2exc., leg. Ozgen.

**Distribution in Turkey:** Adana, Afyonkarahisar, Ankara, Antalya, Aydın, Balıkesir, Bilecik, Bursa, Çanakkale, Denizli, Diyarbakır, Edirne, Elazığ, Gaziantep, Isparta, Hatay, İstanbul, İzmir, Kahramanmaraş, Kars, Kırklareli, Konya, Malatya, Mardin, Mersin, Muğla, Sakarya,

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Uşak (Önder *et al.*, 2006, Matocq *et al.*, 2014).  
*Odontoscelis (Odontoscelis) fuliginosa* (Linnaeus, 1761)

**Material examined:** Tunceli, Tozkoparan village, 01.06.2018, 3 exc. leg. Ozgen

**Distribution in Turkey:** Afyonkarahisar, Ankara, Aydın, Bartın, Bursa, Denizli, Edirne, Elazığ, Erzurum, İzmir, Kahramanmaraş, Karaman, Kastamonu, Kırıkkale, Kırşehir, Konya, Zonguldak. (Önder *et al.*, 2006; Yıldırım *et al.*, 2014).

**Note:** First Faunistic Record in Tunceli province.  
*Psacasta exanthematica* (Scopoli, 1763)

**Material examined:** Elazığ, Aşağıçakmak village, 16.05.2018, 2exc., leg. Ozgen.

**Distribution in Turkey:** Adana, Antalya, Bursa, Çankırı, Çorum, Edirne, Elazığ, Gaziantep, Hatay, İzmir, Kahramanmaraş, Kars, Kayseri, Mersin (Önder *et al.*, 2006).

#### Pentatomidae

*Aelia albovittata* Fieber, 1868

**Material examined:** Elazığ, Aşağıçakmak village, 12.04.2018, 3 exc., leg. Ozgen.

**Distribution in Turkey:** Adana, Adıyaman, Ankara, Balıkesir, Bursa, Çanakkale, Diyarbakır, Gaziantep, Hatay, İzmir, Konya, Manisa, Mersin, Sivas, Şanlıurfa, Tokat. (Önder *et al.*, 2006, Dursun and Fent, 2011, Gözüaçık *et al.*, 2011).

*Aelia germari* Küster, 1852

**Material examined:** Elazığ, Aşağıçakmak village, 16.05.2018, 2exc., leg. Ozgen.

**Distribution in Turkey:** Gaziantep, Hatay (Önder *et al.*, 2006)

**Notes:** First record in Elazığ Fauna  
*Agatharchus linea* (Klug, 1845)

**Material examined:** Bingöl, Karlıova, Halifan village, 25.06.2008, 1 exc, leg. Ozgen.

**Distribution in Turkey:** Kars (Önder *et al.*, 2006)

**Note:** Rare species. It was found on *Astragalus* sp.  
*Ancyrosoma leucogrammes* (Gmelin, 1789)

**Material examined:** Elazığ, Arındık village, 29.04.2018, 2exc., leg. Ozgen.

**Distribution in Turkey:** All of Turkey (Önder *et al.*, 2006; Gözüaçık *et al.*, 2011, Matocq *et al.*, 2014).  
*Bagrada abeillei* Horvath, 1936

**Material examined:** Elazığ, Günbağı, Sütlüce village, 18.05.2018, 2exc, 12.04.2018, Aşağıçakmak village, 5 exc. Totally: 7 exc. leg Ozgen.

**Distribution in Turkey:** Adıyaman, Batman, Diyarbakır, Elazığ, Gaziantep, Hatay, Kilis, Siirt, Şanlıurfa. (Önder *et al.*,

2006, Gözüaçık *et al.*, 2011, Matocq *et al.*, 2014).  
*Derula flavoguttata* Mulsant & Rey, 1856

**Material examined:** Elazığ, Günbağı, Sütlüce village, 18.05.2018, 2 exc, leg. Ozgen.

**Distribution in Turkey:** Adana, Adıyaman, Antalya, Bolu, Bursa, Diyarbakır, Edirne, Elazığ, Eskişehir, Gaziantep, Hatay, Kırklareli, Kütahya, Mersin, Sinop, Sivas (Önder *et al.*, 2006, Gözüaçık *et al.*, 2011, Matocq *et al.*, 2014).  
*Mustha spinosula* (Lefebvre, 1831)

**Distribution in Turkey:** Adana, Ankara, Antalya, Aydın, Bursa, Çanakkale, Diyarbakır, Edirne, Gaziantep, Isparta, İzmir, Konya, Manisa, Mardin, Muğla, Uşak (Önder *et al.*, 2006).

**Material examined:** Bingöl, Ilıca, 25.06.2018, 2 exc.leg. Özgen  
*Piezodorus lituratus* (Fabricius, 1794)

**Distribution in Turkey:** All of Turkey (Önder *et al.*, 2006; Gözüaçık *et al.*, 2011)

**Material examined:** Bingöl, Ilıca, 25.06.2018, 3 exc.leg. Özgen  
*Sciocoris sulcatus* Fieber, 1851

**Material examined:** Elazığ, Günbağı, Sütlüce village, 18.05.2018, 2exc, leg Ozgen.

**Distribution in Turkey:** All of Turkey (Önder *et al.*, 2006, G)  
*Stagonomus amoenus* (Brulle, 1832)

**Material examined:** Tunceli, Karşılar village, 01.06.2018, 5 exc. leg. Ozgen

**Distribution in Turkey:** Adana, Ankara, Antalya, Balıkesir, Bursa, Çanakkale, Edirne, Elazığ, Gaziantep, Hatay, Kahramanmaraş, Karaman, Kayseri, Kırklareli, Konya, Mersin, Tekirdağ (Önder *et al.*, 2006, Matocq *et al.*, 2014).  
*Staria lunata* (Hahn, 1835)

**Material examined:** Elazığ, Günbağı village, 18.05.2018, 4 exc, Arındık village, 29.04.2018, 3 exc., Totally: 7 exc. leg Ozgen

**Distribution in Turkey:** Adana, Adıyaman, Ankara, Antalya, Aydın, Balıkesir, Bartın, Bilecik, Bolu, Bursa, Çanakkale, Çankırı, Diyarbakır, Elazığ, Edirne, Gaziantep, Hatay, İzmir, Kahramanmaraş, Manisa, Mersin, Muğla, Şanlıurfa Zonguldak. (Önder *et al.*, 2006, Gözüaçık *et al.*, 2011, Matocq *et al.*, 2014).  
*Ventocoris trigonus* (Krynicky, 1871)

**Material examined:** Elazığ, Günbağı, Sütlüce village, 18.05.2018, 2exc, leg Ozgen.

**Distribution in Turkey:** Adana, Afyonkarahisar, Amasya, Ankara, Aydın, Balıkesir, Bursa, Edirne, Gaziantep, Hatay, Kahramanmaraş, Konya. (Önder *et al.*, 2006).  
*Vilpianus galii* (Wolff, 1802)

**Material examined:** Elazığ, Günbağı, Sütlice village, 01.05.2018, 3 exc, leg Ozgen.

**Distribution in Turkey:** Adana, Ankara, Diyarbakır, Edirne, Gaziantep, Kahramanmaraş (Önder *et al.*, 2006, Gözüaçık *et al.*, 2011).

**Note:** Rare species, First Record in East Anatolia

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