

AUCHENORRHYNCHA (HOMOPTERA) DATA FROM ANKARA WITH TWO NEW RECORDS TO TURKEY

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ABSTRACT: In this study, the Auchenorrhyncha specimens collected from various localities in Ankara in 1997–2000 are examined. 60 species belonging to 10 families are found to be distributed in the region. Among these, 4 species belong to Cixidae, 4 species to Delphacidae, 1 species to Meenoplidae, 5 species to Tettigometridae, 1 species to Caliscelidae, 5 species to Issidae, 1 species to Flatidae, 3 species to Cicadidae, 6 species to Cercopidae and 30 species to Cicadellidae. Distribution in Turkey of these species are given along with their locality records. 3 of these examined species are new records for Ankara and two of them, *Tettigometra* (s. str.) *atra* Hagenbach, 1825 and *Tettigometra* (s. str.) *impressopunctata* Dufour, 1846 are new records for Turkish fauna.

KEY WORDS: Homoptera, Auchenorrhyncha, fauna, new records, Ankara, Turkey.

Ankara province located in Central Anatolia has a rather large area. In spite of the composition of step vegetation in Ankara, the north part of province connects with forest vegetation. For this reason, it is a rich region in terms of fauna. Dlabola (1957) which is the first comprehensive study on Turkish Auchenorrhyncha includes records from Taurus and Ankara province. Kalkandelen (1974) reports some records from mostly Ankara province in the study on Deltocephalinae in Central Anatolia. The other works of Kalkandelen (1988, 1993, 1994, 2000) also include Ankara records. Besides, Demir (1998, 2004, 2005, 2006a, 2006b, 2006c) contain records from Ankara. The study, Lodos and Kalkandelen (1980-1988) give the list of Auchenorrhyncha in Turkey, comprise of various records from Ankara. With respect to records, the Auchenorrhyncha fauna of Ankara is represented 246 species.

In the present work, it is aimed that to contribute to the fauna of the region by determining specimens collected from Ankara in various time. Examined specimens collected mostly from Ayaş, Kalecik, Kızılcahamam of Ankara province.

The field expedition in the research study was carried out in 1997–2000. In this study, 564 adult Auchenorrhyncha samples were collected by sweeping the plants with a wooden shaft net and the of samples collected from only one species of plant were determined. Homopterans, found in the net after sweeping were collected with an aspirator. The samples in the aspirator were then killed by ethyl acetate in a jar and put in standard envelopes and prepared according to the standard methods to prouce museum material. The studied samples are preserved in the collection of the author.

Family: Cixiidae***Cixius (Ceratocixius) remotus* Edwards, 1888**

Materials: Kalecik, İdris Dağı, 1555 m, 23.06.2001 1♂; Gölköy, 1320 m, 23.06.2001 2♂ 5♀.
Distribution in Turkey: Adana, Antalya, Erzurum, Konya (Kalkandelen, 1988; Demir, 2007). **Remarks:** New for Ankara.

***Tachycixius desertorum* (Fieber, 1876)**

Materials: Kalecik, Gölköy, 1320 m, 23.06.2001 6♂ 1♀; İdris Dağı, 1555 m, 23.06.2001 1♀.
Distribution in Turkey: Adıyaman, Ankara, Antalya, Artvin, Diyarbakır, Edirne, Eskişehir, Gaziantep, Hakkari, İzmir, Kastamonu, Konya, İçel, Manisa, Mardin, Muğla, Nevşehir, Sinop, Uşak, Yalova (Lodos & Kalkandelen, 1980a; Kalkandelen, 1988; Demir, 2006a). **Remarks:** Known to Ankara.

***Pentastira major* Kirschbaum, 1868**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 4♂ 1♀. **Distribution in Turkey:** Adana, Ankara, Antalya, Alanya, Bolu, Çankırı, Çorum, Diyarbakır, Gaziantep, Giresun, Hatay, Isparta, İzmir, Konya, Karaman, Kahramanmaraş, Manisa, Mardin, Muş, Niğde, Samsun, Tekirdağ, Tokat, Şanlıurfa, Van, Yozgat (Linnavuori, 1965; Lodos & Kalkandelen, 1980a; Kalkandelen, 1993; Demir, 2007). **Remarks:** Known to Ankara.

***Reptalus (s. str.) horridus* (Linnavuori 1962)**

Material: Kalecik, Akyurt, 1205 m, 23.06.2001 1♂. **Distribution in Turkey:** Adana, Antalya, İzmir (Kalkandelen, 1994; Demir, 2007). **Remarks:** New for Ankara.

Family: Delphacidae Leach, 1815***Asiraca clavicornis* (Fabricius, 1794)**

Materials: Ayaş, Akyatak, 1200 m, 16.04.2000 1♂ 1♀, Sincan, Mülk. Ayaş Mts. E., 1000 m, 22.05.2000 1♂ 1♀. **Distribution in Turkey:** Amasya, Ankara, Antalya, Aydın, Çorum, Denizli, Erzurum, İstanbul, İzmir, Konya, Kütahya, Muğla, Nevşehir, Samsun, Sinop, Yozgat (Lodos & Kalkandelen, 1980b; Dlabola, 1981; Asche, 1982; Güçlü, 1996; Demir, 2007). **Remarks:** Known to Ankara.

***Muirodelphax aubei* (Perris, 1857)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 2♂ 4♀. **Distribution in Turkey:** Ankara, Antalya, Denizli, Erzurum, İzmir, Van (Dlabola, 1957, 1981; Lodos & Kalkandelen, 1980b; Asche, 1982; Güçlü, 1996; Demir, 2006a, 2007). **Remarks:** Known to Ankara.

***Dicranotropis (Leimonodite) beckeri* Fieber 1866**

Material: Kalecik, Akyurt, 1205 m, 23.06.2001 3♂ 34♀. **Distribution in Turkey:** Ankara (Asche, 1982). **Remarks:** Known to Ankara.

***Javesella (s. str.) pellucida* (Fabricius, 1794)**

Materials: Kızılcahamam, Güvem, Yenimahalle, 1250 m, 09.08.1997 2♂ 1♀. **Distribution in Turkey:** Bitlis, Diyarbakır, Erzurum, Kahramanmaraş, Konya, Sinop (Lodos & Kalkandelen, 1980b; Güçlü, 1996) **Remarks:** New for Ankara.

Family: Meenoplidae***Meenoplus albosignatus* Fieber, 1866**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 7♂ 12♀. **Distribution in Turkey:** Adiyaman, Ankara, Antalya, Bolu, Gaziantep, Hakkari, Malatya, Mardin, Muş (Dlabola, 1957, 1981; Linnavuori, 1965; Lodos & Kalkandelen, 1980c; Demir, 2006a, 2007).

Remarks: Known to Ankara.

Family: Tettigometridae Germar, 1821***Tettigometra (Hystrigonia) hexaspina* Kolenati, 1857**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 1♀; Sincan, Müllk. Ayaş Mts. E., 1000 m, 11.05.2000 1♂. **Distribution in Turkey:** Ağrı, Ankara, Antalya, Edirne, Gaziantep, Giresun, Isparta, Tekirdağ, Urfa (Dlabola, 1957; Lodos & Kalkandelen, 1980c; Demir, 2006a, 2007). **Remarks:** Known to Ankara.

***Tettigometra (Mitricephalus) eremi* Lindberg, 1948**

Materials: Kalecik, İdris Dağı, 1555 m, 23.06.2001 1♂. **Distribution in Turkey:** Ankara, Antalya, Aydın, Burdur, Çanakkale, İzmir, Kayseri, Kocaeli, Kütahya, Manisa, Sivas, Uşak (Lodos & Kalkandelen, 1980c; Dlabola, 1981; Demir, 2006a, 2007). **Remarks:** Known to Ankara.

***Tettigometra (Mitricephalus) leucophaea* (Preysler 1792)**

Materials: Çamlıdere, 28.06.1997 1♀. **Distribution in Turkey:** Adiyaman, Ağrı, Ankara, Bilecik, Bolu, Burdur, Çanakkale, Çankırı, Çorum, Diyarbakır, Elazığ, İstanbul, İzmir, Mardin, Nevşehir, Sivas, Tekirdağ, Urfa (Linnavuori, 1965; Lodos & Kalkandelen, 1980c) **Remarks:** Known to Ankara.

***Tettigometra (s. str.) atra* Hagenbach 1825**

Materials: Işıkdığı, Salin Köyü, 1300 m, 30.08.1997 1♂ 4♀. **Distribution in Turkey:** There is no record from Turkey. **Remarks:** New for Turkey.

***Tettigometra (s. str.) impressopunctata* Dufour 1846**

Materials: Işıkdığı, Salin Köyü, 1300 m, 30.08.1997 3♂ 5♀. **Distribution in Turkey:** There is no record from Turkey. **Remarks:** New for Turkey.

Family: Caliscelidae Amyot et Serville, 1843***Peltonotellus punctifrons* Horvath, 1895**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 1♂. **Distribution in Turkey:** Ankara, Kırşehir, Yozgat (Dlabola., 1957; Kartal, 1985). **Remarks:** Known to Ankara.

Family: Issidae Spinola, 1839***Mycterodus (s. str.) rostratulus* Emeljanov, 1964**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 20.05.2000 1♀; 22.05.2000 1♀; Kızılcahamam, Soğuksu, 1100 m, 06.06.1998 2♀; 1300 m, 27.06.1998 1♂. **Distribution in Turkey:** 06, 66 (Lodos & Kalkandelen, 1981a; Kartal, 1985) **Remarks:** Known to Ankara.

***Scorlupella montana* (Becker, 1865)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 16♀; Kalecik, 950 m, 23.06.2001 2♀; Gölköy, 1320 m, 1♀; Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 11♀; 20.07.2000 8♀; 27.05.2000 2♀; 11.05.2000 13♀; 22.05.2000 19♀; Kızılcahamam, Soğuksu, 1300 m, 27.06.1998 1♀. **Distribution in Turkey:** Ankara, Erzincan, Kars, Yozgat (Lodos & Kalkandelen, 1981a; Kartal, 1985) **Remarks:** Known to Ankara.

***Agalmatium bilobum* (Fieber, 1877)**

Material: Kalecik, 950 m, 23.06.2001 2♂ 2♀. **Distribution in Turkey:** Adana, Adıyaman, Afyon, Ankara, Aydın, Balıkesir, Bilecik, Burdur, Bursa, Çanakkale, Çorum, Denizli, Eskişehir, Gaziantep, Gümüşhane, Hatay, İzmir, Kırklareli, Kırşehir, Kütahya, Malatya, Manisa, Muğla, Sakarya, Sivas, Tekirdağ, Tokat, Uşak, Yozgat (Linnv., 1965; Lodos & Kalkandelen, 1981a; Kartal, 1985) **Remarks:** Known to Ankara.

***Tshurtshurnella peloponica* Dlabola, 1979**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 20.07.2000 1♂ 1♀. **Distribution in Turkey:** Ankara (Lodos & Kalkandelen, 1988; Demir, 2006a) **Remarks:** Known to Ankara.

***Kervillea parvissima* (Dlabola, 1957)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 2♂ 3♀; Sincan, Müllk. Ayaş Mts. E., 1000 m, 20.07.2000 2♂; 22.05.2000 2♀; 11.05.2000 1♂ 2♀; Çamlıdere, 28.06.1997 1♂ 1♀. **Distribution in Turkey:** Ankara, Yozgat (Kartal, 1985; Lodos & Kalkandelen, 1981a) **Remarks:** Known to Ankara.

Family: Flatidae***Phantia subquadrata* (Herrich-Schaffer, 1838)**

Materials: Etimesgut, Elvanköy, 800 m, 30.07.2001 8♂ 13♀; Sincan, Müllk. Ayaş Mts. E., 1000 m, 20.07.2000 1♀. **Distribution in Turkey:** Adana, Ankara, Antalya, Aydın, Bilecik, Denizli, Diyarbakır, Edirne, Gaziantep, Isparta, İzmir, Konya, Manisa, Mardin, Muğla (Dlabola, 1957; Lodos & Kalkandelen, 1981b; Demir, 2007). **Remarks:** Known to Ankara.

Family: Cicadidae Leach, 1815***Cicadatra hyalina* (Fabricius, 1798)**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 1♂. **Distribution in Turkey:** Adıyaman, Ankara, Antalya, Elazığ, Erzincan, Gümüşhane, Hakkari, Isparta, İzmir, Konya, Kahramanmaraş, Nevşehir, Niğde, Siirt, Urfa, Van (Dlabola, 1957; Lodos & Kalkandelen, 1981b; Demir, 2007). **Remarks:** Known to Ankara.

***Cicadatra persica* Kirkaldy, 1909**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 1♀. **Distribution in Turkey:** Ankara, Bitlis, Burdur, Gümüşhane (Lodos & Kalkandelen, 1981b) **Remarks:** Known to Ankara.

***Cicadivetta tibialis* (Panzer, 1798)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 2♂ 1♀; Gölköy, 1320m, 23.06.2007 4♂; Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 1♂. **Distribution in Turkey:** 06, 08, 19 (Lodos & Kalkandelen, 1981b) **Remarks:** Known to Ankara.

Family: Cercopidae Leach, 1815***Cercopis intermedia* Kirschbaum, 1868**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 1♀; İdris Dağı, 1555 m, 23.06.2001 1♂; Sincan, Mülk. Ayaş Mts. E., 1000 m, 11.05.2000 8♂; 22.05.2000 1♂; Kızılcahamam, Soğuksu, 1300 m, 27.06.1998 1♂1♀. **Distribution in Turkey:** Adıyaman, Amasya, Ankara, Artvin, Bitlis, Çanakkale, Diyarbakır, Elazığ, Eskişehir, Gaziantep, Giresun, Hakkari, Hatay, Isparta, İzmir, Kayseri, Kırklareli, Konya, Kütahya, Maraş, Mardin, Niğde, Rize, Samsun, Siirt, Trabzon, Urfa, Uşak (Lodos & Kalkandelen, 1981c; Kartal et al., 1994). **Remarks:** Known to Ankara.

***Lepyronia coleoptrata* (Linnaeus, 1758)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 1♂ 2♀; İdris Dağı, 1555 m, 23.06.2001 1♂; Sincan, Mülk. Ayaş Mts. E., 1000 m, 17.06.2000 4♂ 3♀, 20.07.2000 2♂; Çaldağı, 25.07.1997 1♀. **Distribution in Turkey:** Adana, Afyon, Ankara, Antalya, Artvin, Aydın, Bilecik, Bursa, Çanakkale, Çankırı, Çorum, Diyarbakır, Edirne, Erzincan, Gümüşhane, İzmir, Kars, Kütahya, Manisa, Mardin, Muğla, Muş, Sakarya, Samsun, Siirt, Tokat (Dlabola, 1957; Lodos & Kalkandelen, 1981c; Kartal, et. al., 1994; Demir, 2007). **Remarks:** Known to Ankara.

***Neophilaenus campestris* (Fallen, 1805)**

Materials: Kalecik, İdris Dağı, 1555 m, 23.06.2001 2♀; Sincan, Mülk. Ayaş Mts. E., 1000 m, 22.05.2000 1♂; 17.06.2000 1♂ 1♀; Kızılcahamam, Soğuksu, 1300 m, 27.06.1998 1♂ 1♀; 1100 m, 06.06.1998 3♂. **Distribution in Turkey:** Adana, Afyon, Adıyaman, Ankara, Antalya, Artvin, Bitlis, Bursa, Çanakkale, Eskişehir, Giresun, Hatay, İzmir, Kırklareli, Kütahya, Manisa, Muğla, Nevşehir, Samsun, Siirt, Sinop, Trabzon, Van (Linnavuori, 1965; Lodos & Kalkandelen, 1981c; Demir, 2007). **Remarks:** Known to Ankara.

***Neophilaenus minor* (Kirschbaum, 1868)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 2♂ 4♀; Sincan, Mülk. Ayaş Mts. E., 1000 m, 17.06.2000 1♂ 3♀; 20.07.2000 4♂ 3♀; Kızılcahamam, Soğuksu, 1300 m, 27.06.1998 2♀; 1100 m, 06.06.1998 1♂ 2♀. **Distribution in Turkey:** Ankara, Antalya, Konya, Sivas (Dlabola, 1957, 1981; Demir, 2007). **Remarks:** Known to Ankara.

***Aphrophora corticea* Germar, 1821**

Materials: Kızılcahamam, Soğuksu, 1100 m, 06.06.1998 1♀. **Distribution in Turkey:** Afyon, Ankara, Antalya, Aydın, Bilecik, Çanakkale, Isparta, Kütahya, Muğla, Tokat (Lodos & Kalkandelen, 1981c; Demir, 2006a, 2007) **Remarks:** Known to Ankara.

***Philaenus spumarius* (Linnaeus, 1758)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 1♂ 1♀; İdris Dağı, 1555 m, 23.06.2001 1♀. **Distribution in Turkey:** Ağrı, Amasya, Ankara, Antalya, Artvin, Aydın, Balıkesir, Bilecik, Bitlis, Bursa, Çanakkale, Elazığ, Erzincan, Erzurum, Giresun, Gümüşhane, Hakkari, İzmir, Kahramanmaraş, Kars, Kocaeli, Kırklareli, Kütahya, Malatya, Manisa, Mardin, Muğla, Ordu, Rize, Samsun, Siirt, Sinop, Sivas, Tekirdağ, Tokat, Trabzon, Van (Dlabola, 1957, 1981; Linnavuori, 1965; Lodos & Kalkandelen, 1981c; Kartal, et. al., 1994; Demir, 2007). **Remarks:** Known to Ankara.

Family: Cicadellidae Latreille, 1825***Utecha trivialis* (Germar, 1821)**

Materials: Kızılcahamam, Soğuksu, 1300 m, 27.06.1998 1♂. **Distribution in Turkey:** Ağrı, Ankara, Bilecik, Çanakkale, Çorum, Denizli, Elazığ, Gümüşhane, İzmir, Kastamonu,

Manisa, Mardin, Muğla, Rize, Siirt, Sivas, Urfa (Lodos & Kalkandelen, 1981d) **Remarks:** Known to Ankara.

***Anaceratagallia laevis* (Ribaut, 1935)**

Materials: Kalecik, Gölköy, 1320 m, 23.06.2001 1♀; Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 1♂ 4♀. **Distribution in Turkey:** Adana, Ağrı, Ankara, Antalya, Bilecik, Bitlis, Çanakkale, Diyarbakır, Elazığ, Erzurum, Hatay, İzmir, İstanbul, Kırklareli, Konya, Malatya, Manisa, Mardin, Mersin, Muğla, Nevşehir, Niğde, Ordu, Samsun, Siirt, Urfa, Yozgat, Zonguldak (Zachvatkin 1946; Dlabola, 1957, 1981; Lodos & Kalkandelen, 1981d; Demir, 2006). **Remarks:** Known to Ankara.

***Dryodurgades anaticus* Dlabola, 1957**

Materials: Kızılcahamam, Soğuksu, 1100 m, 06.06.1998 1♀. **Distribution in Turkey:** Adana, Ankara (Dlabola., 1957; Demir, 2004, 2006a) **Remarks:** Known to Ankara.

***Batracomorphus irroratus* Lewis, 1834**

Materials: Kalecik, 950 m, 23.06.2001 3♀; Gölköy, 1320 m, 23.06.2001 1♀; Akyurt, 1205 m, 23.06.2001 1♀; Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 1♀; 20.07.2000 4♀; Kızılcahamam, Soğuksu, 1300 m, 27.06.1998 1♂. **Distribution in Turkey:** Adiyaman, Ankara, Burdur, Diyarbakır, Kayseri, Nevşehir, Tekirdağ, Van (Lodos & Kalkandelen, 1982b). **Remarks:** Known to Ankara.

***Penthimia nigra* (Goeze, 1778)**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 03.06.2000 1♀; Kızılcahamam, Soğuksu, 1100 m, 06.06.1998 1♀. **Distribution in Turkey:** Ankara, Antalya, Bilecik, Isparta, İzmir, Kocaeli, Nevşehir, Tekirdağ, Trabzon (Lodos & Kalkandelen, 1982b). **Remarks:** Known to Ankara.

***Paradorydium paradoxum* (Herrich-Schaeffer, 1837)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 1♀; Sincan, Müllk. Ayaş Mts. E., 1000 m, 20.07.2000 1♀; 17.06.2000 1♀. **Distribution in Turkey:** Ankara, Antalya, Diyarbakır (Lodos & Kalkandelen, 1982b; Demir, 2004, 2005, 2006a, 2006b). **Remarks:** Known to Ankara.

***Eupelix cuspidata* (Fabricius, 1775)**

Materials: Kalecik, Gölköy, 1320 m, 23.06.2001 1♀; Kızılcahamam, Soğuksu, 1300 m, 27.06.1998 2♂. **Distribution in Turkey:** Adana, Adiyaman, Afyon, Ankara, Antalya, Artvin, Bitlis, Çanakkale, Diyarbakır, Erzurum, Kahramanmaraş, Konya, Malatya, Mardin, Mersin, Nevşehir, Niğde, Urfa, Van (Dlabola, 1957, 1981; Lodos & Kalkandelen, 1982b; Demir, 2006a; Demir, 2006b). **Remarks:** Known to Ankara.

***Micantulina (Mulsantina) stigmatipennis* (Mulsant et Rey, 1855)**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 22.05.2000 1♀; Kızılcahamam, Soğuksu, 1100 m, 06.06.1998 2♂. **Distribution in Turkey:** Ankara, Antalya, Burdur, Isparta, İstanbul, İzmir, Manisa, Van (Dlabola, 1957, 1981; Lodos & Kalkandelen, 1983b; Demir, 2006a; Demir, 2006b). **Remarks:** Known to Ankara.

***Goniagnathus brevis* (Herrich-Schäffer, 1835)**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 11.05.2000 1♂. **Distribution in Turkey:** Adana, Amasya, Ankara, Antalya, Burdur, Diyarbakır, Edirne, Manisa, Mardin, Niğde, Samsun, Sinop, Tokat (Dlabola, 1957; Kalkandelen, 1974; Lodos & Kalkandelen, 1985a; Zeybekoğlu, 1998; Demir, 2004, 2006). **Remarks:** Known to Ankara.

***Circulifer haematoceps* (Mulsant et Rey, 1855)**

Materials: Kalecik, Gölköy, 1320 m, 23.06.2001 1♀. **Distribution in Turkey:** Ankara, Hakkari, Konya, Muğla, Nevşehir (Kalkandelen, 1974; Kartal et al., 2001) **Remarks:** Known to Ankara.

***Aconurella prolixa* (Lethierry, 1885)**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 1♀. **Distribution in Turkey:** Ankara, Artvin, Erzincan, Erzurum, Gaziantep, Kahramanmaraş, Niğde, Rize (Linnavuori, 1965; Lodos & Kalkandelen, 1985c) **Remarks:** Known to Ankara.

***Platymetopius henribauti* Dlabola, 1961**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 1♀. **Distribution in Turkey:** Ankara, Antalya, Konya, Sivas (Kalkandelen, 1974; Lodos & Kalkandelen, 1986b; Demir, 2006a; Demir, 2006b). **Remarks:** Known to Ankara.

***Selenocephalus obsoletus* (Germar, 1817)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 2♂ 2♀; Gölköy, 1320 m, 23.06.2001 1♂. **Distribution in Turkey:** Amasya, Ankara, Balıkesir, Bilecik, Bolu, Bursa, Çanakkale, Çankırı, Edirne, Eskşehir, Giresun, Kırklareli, Kocaeli, Malatya, Ordu, Rize, Samsun, Sinop, Sivas, Tekirdağ, Tokat, Trabzon, Zonguldak (Linnavuori, 1965; Lodos & Kalkandelen, 1986c). **Remarks:** Known to Ankara.

***Selenocephalus pallidus* Kirschbaum, 1868**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 20.07.2000 2♂ 3♀. **Distribution in Turkey:** Adana, Ankara, Antalya, Aydın, Bolu, Burdur, Bursa, Çanakkale, Çankırı, Çorum, Denizli, Isparta, İzmir, Kayseri, Kırşehir, Konya, Manisa, Samsun, Sinop, Tokat, Yozgat (Dlabola, 1957; Linnavuori, 1965; Kalkandelen, 1974; Lodos & Kalkandelen, 1986c; Demir, 2006b). **Remarks:** Known to Ankara.

***Hardya anatolica* Zachvatkin, 1946**

Materials: Kalecik, Gölköy, 1320 m, 23.06.2001 2♂ 1♀; Akyurt, 1205 m, 23.06.2001 1♀; İdris Dağı, 1555 m, 23.06.2001 1♀; Ayaş, Akyatak, 1200 m, 16.04.2000 1♂ 11♀; Yenikent, 750 m, 16.04.2000 1♀; Kızılcahamam, Soğuksu, 1300 m, 27.06.1998 5♂ 7♀; Çamlıdere, 28.06.1997 5♂ 16♀. **Distribution in Turkey:** Adıyaman, Ankara, Antalya, Bolu, Elazığ, Erzincan, Isparta, İzmir, Kahramanmaraş, Karaman, Kayseri, Kırşehir, Malatya, Nevşehir, Ordu (Zachvatkin, 1946; Dlabola, 1957; Linnavuori, 1965; Kalkandelen, 1974; Lodos & Kalkandelen, 1987a; Demir, 2004, 2006a; Demir, 2006b). **Remarks:** Known to Ankara.

***Stenometopiellus angorensis* Zachvatkin, 1946**

Materials: Atatürk Orman Çiftliği, 13.05.1998 1♀. **Distribution in Turkey:** Ağrı, Ankara, Bitlis, Diyarbakır, Erzincan, Erzurum, Hakkari, Iğdır, Kars, Konya, Malatya, Nevşehir, Urfa, Van (Zachvatkin, 1946; Kalkandelen, 1974; Lodos & Kalkandelen, 1987b; Kartal et al., 2001) **Remarks:** Known to Ankara.

***Rhopalopyx vitripennis lalahani* (Kalkandelen, 1972)**

Materials: Kalecik, İdris Dağı, 1555 m, 23.06.2001 1♂; Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 1♂ 7♀; 27.05.2000 1♂. **Distribution in Turkey:** Ankara, Konya (Kalkandelen, 1974; Lodos & Kalkandelen, 1987b). **Remarks:** Known to Ankara.

***Mocydiopsis parvicauda* Ribaut, 1939**

Materials: Kızılcahamam, Soğuksu, 1100 m, 06.06.1998 2♀. **Distribution in Turkey:** Ankara, Isparta, Nevşehir, Samsun (Kalkandelen, 1974, Lodos & Kalkandelen, 1987b). **Remarks:** Known to Ankara.

***Handianus procerus* (Herrich-Schaeffer, 1835)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 4♂ 3♀; Kızılcahamam, Soğuksu, 1300 m, 27.06.1998 2♂ 3♀. **Distribution in Turkey:** Afyon, Ağrı, Ankara, Antalya, Bitlis, Erzurum, Isparta, İzmir, Kırıkkale, Konya, Malatya, Nevşehir, Niğde, Urfa, Van, Zonguldak (Kalkandelen, 1974; Lodos & Kalkandelen, 1987b) **Remarks:** Known to Ankara.

***Limotettix striola* (Fallén, 1806)**

Materials: Kalecik, Gölköy, 1320 m, 23.06.2001 1♂. **Distribution in Turkey:** Ağrı, Ankara, Antalya, Artvin, Bolu, Bursa, Çankırı, Diyarbakır, Erzincan, Erzurum, Iğdır, İstanbul, Kahramanmaraş, Konya, Malatya, Nevşehir, Niğde, Sakarya, Urfa, Van, Zonguldak (Dlabola, 1957; Kalkandelen, 1974; Lodos & Kalkandelen, 1987b; Demir, 2006b). **Remarks:** Known to Ankara.

***Euscelis incisus* (Kirschbaum, 1858)**

Materials: Kalecik, Gölköy, 1320 m, 23.06.2001 1♀; Ayaş, Akyatak, Yenikent, 750 m, 14.04.2000 2♂ 2♀; Akyatak, 1200 m, 16.04.2000 1♀. **Distribution in Turkey:** Ankara, Burdur, Eskişehir, Isparta, Kayseri, Kocaeli (Kalkandelen, 1974). **Remarks:** Known to Ankara.

***Streptanus josifovi* Dlabola, 1957**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 22.05.2000 1♂ 2♀; 11.05.2000 1♀. **Distribution in Turkey:** Adana, Ankara, Eskişehir, İçel, İzmir, Kayseri, Konya, Kütahya, Manisa (Kalkandelen, 1974; Lodos & Kalkandelen, 1987b) **Remarks:** Known to Ankara.

***Artianus manderstjernii* (Kirschbaum, 1868)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 2♂ 3♀; Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 1♂; 20.07.2000 1♀; Kızılcahamam, Soğuksu, 1300 m, 27.06.1998 1♂. **Distribution in Turkey:** Ağrı, Ankara, Balıkesir, Çankırı, Diyarbakır, Gaziantep, İzmir, Kırklareli, Urfa, Van, Zonguldak (Kalkandelen, 1974; Lodos & Kalkandelen, 1987b) **Remarks:** Known to Ankara.

***Arocephalus longiceps* (Kirschbaum, 1868)**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 11.05.2000 2♂; Kızılcahamam, Soğuksu, 1100 m, 06.06.1998 6♂ 5♀. **Distribution in Turkey:** Ankara, Bolu, Erzincan, Hakkari, İzmir, Konya (Lodos & Kalkandelen, 1987c; Kartal et al., 2001) **Remarks:** Known to Ankara.

***Psammotettix alienus* (Dahlbom, 1850)**

Materials: Kalecik, İdris Dağı, 1555 m, 23.06.2001 2♂ 5♀; Akyurt, 1205 m, 23.06.2001 2♂ 3♀. **Distribution in Turkey:** Adana, Amasya, Ankara, Antalya, Balıkesir, Bolu, Bursa, Çorum, Diyarbakır, Erzincan, Erzurum, Hakkari, Iğdır, Kastamonu, Konya, Malatya, Mardin, Mersin, Muş, Nevşehir, Sakarya, Samsun, Siirt, Sinop, Uşak, Van, Yozgat (Kalkandelen, 1974; Lodos & Kalkandelen, 1987c; Kartal et al., 2001; Demir, 2004, 2006a; Demir, 2006b). **Remarks:** Known to Ankara.

***Psammotettix cephalotes* (Herrich-Schaeffer, 1834)**

Materials: Sincan, Müllk. Ayaş Mts. E., 1000 m, 20.07.2000 2♂ 3♀; 11.05.2000 1♂; 22.05.2000 4♂ 1♀. **Distribution in Turkey:** Ankara, Isparta, Isparta, Erzincan, Konya, Van (Kalkandelen, 1974; Lodos & Kalkandelen, 1987c) **Remarks:** Known to Ankara.

***Psammotettix provincialis* (Ribaut, 1925)**

Materials: Kalecik, Gölköy, 1320 m, 23.06.2001 5♂ 4♀; Sincan, Müllk. Ayaş Mts. E., 1000 m, 17.06.2000 1♂ 2♀. **Distribution in Turkey:** Adana, Ankara, Antalya, Bolu, Çankırı, Diyarbakır, Edirne, Erzurum, İstanbul, İzmir, Kayseri, Konya, Mersin, Nevşehir, Sakarya,

Samsun, Van (Dlabola, 1957; Kalkandelen, 1974; Lodos & Kalkandelen, 1987c; Demir, 2006a; Demir, 2006b). **Remarks:** Known to Ankara.

***Diplocoenus bekiri* Kalkandelen, 1972**

Materials: Kalecik, Glky, 1320 m, 23.06.2001 1♀; İdris Dađı, 1555 m, 23.06.2001 1♀; Sincan, Mlk. Ayaş Mts. E., 1000 m, 17.06.2000 2♂ 5♀; 22.05.2000 10♂ 11♀.

Distribution in Turkey: Ankara, Samsun (Kalkandelen, 1974; Lodos & Kalkandelen, 1987d) **Remarks:** Known to Ankara.

***Rhoananus hypochlorus* (Fieber, 1869)**

Materials: Kalecik, Akyurt, 1205 m, 23.06.2001 6♂ 16♀; Sincan, Mlk. Ayaş Mts. E., 1000 m, 20.07.2000 15♀; Kızılcahamam, Sođuksu, 1300 m, 27.06.1998 3♂ 3♀.

Distribution in Turkey: Ankara, Bitlis, Erzurum, Eskişehir, İđdır, Kars, Van (Kalkandelen, 1974; Lodos & Kalkandelen, 1987d) **Remarks:** Known to Ankara.

***Mocuellus quadricornis* Dlabola, 1949**

Materials: Sincan, Mlk. Ayaş Mts. E., 1000 m, 17.06.2000 3♀; 22.05.2000 2♂ 1♀; 20.07.2000 1♂. **Distribution in Turkey:** Ankara (Kalkandelen, 1974) **Remarks:** Known to Ankara.

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