

## Determination of Aphididae (Homoptera) fauna of Diyarbakır Province of Turkey\*

Selime ÖLMEZ BAYHAN\*\*

Mehmet Rifat ULUSOY\*\*\*

Seval TOROS\*\*\*\*

### Summary

Aphids were surveyed in Diyarbakır province of Turkey between 1998-2000. As a result of the survey studies performed, 61 species of aphids were determined on different host plants. Their distribution in Turkey, host plants, collecting dates and occurrence were given for each species. Of them, 30 species were the first record for Diyarbakır province.

**Key words:** Aphididae, Diyarbakır, fauna, Turkey

**Anahtar sözcükler:** Aphididae, Diyarbakır, fauna, Türkiye

### Introduction

Aphids (Homoptera: Aphididae), particularly from the subfamily Aphidinae, are usually the most important pests of agricultural and horticultural crops in the world, damaging plants by sucking phloem sap and by transmitting viral diseases (Kennedy et al., 1962; Blackman & Eastop, 1984; Conti, 1985).

The first records of Turkish aphids were given by Trotter (1903), and Fahringer (1922). Then there were conducted many studies on aphids in Turkey (İyriboz & İleri, 1941; Alkan, 1953; Düzgüneş & Tuatay, 1956; Börner & Heinze, 1957; Bodenheimer & Swirski, 1957; Tuatay & Remaudière, 1964; Düzgüneş et al., 1982; Elmalı ve Toros, 1996; Toros et al., 2002). These studies have primarily concentrated on faunistic. However, no investigation on aphids which have wide

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\*\* Dicle Üniversitesi, Ziraat Fakültesi, Bitki Koruma Bölümü, Diyarbakır  
e-mail: solmez@mail.cu.edu.tr

\*\*\* Çukurova Üniversitesi, Ziraat Fakültesi, Bitki Koruma Bölümü, 01330-Balcalı, Adana  
e-mail: mrulusoy@mail.cu.edu.tr

\*\*\*\* Ankara Üniversitesi, Ziraat Fakültesi, Bitki Koruma Bölümü, Dışkapı, Ankara  
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range has been performed in South East Anatolia region before. The aim of this study was to determine Aphididae species in cultivated and noncultivated areas in Diyarbakır province of Turkey.

## Material and Methods

Aphid samples on various hosts were collected from different locations (Central province, Bismil, Çınar, Çermik, Çüngüş, Dicle, Eğil, Ergani, Hazro, Kocaköy, Lice and Silvan) in cultivated and noncultivated areas of Diyarbakır province, which is located Southeast Anatolia region of Turkey between 1998-2000. Plant parts having aphids were cut and placed separately in polyethylene bags which were brought to the laboratory. The sample of aphids transferred into ephendorph tubes containing % 70 ethyl alcohol with a fine brush. The method of Hille Ris Lambers (1950) was used for mounting technique. Identifications of the species were made by Prof. Dr. S. Toros using Bodenheimer and Swirski (1957), Hille Ris Lambers (1945, 1947a, 1947b, 1973), Börner and Heinze (1957), Tuatay and Remaudière (1964), Shaposhnikov (1964), Stroyan (1957, 1961, 1963, 1977, 1984), Eastop (1971), Bissel (1978) and Blackman and Eastop (1984, 1994). The determined species were classified according to Remaudière & Remaudière (1997). Asterisk indicates new record for Diyarbakır province.

## Results and Discussion

In this study, a total of 63 species were determined belonging to 6 subfamilies (Anoeciinae, Aphidinae, Chaitophorinae, Lachninae, Myzocallidinae and Pemphiginae), 11 tribe (Anoecini, Aphidini-Aphidina, Aphidini-Rhopalosiphini, Macrosiphini, Chaitophorini, Cinarini, Lachnini, Myzocallidini, Eriosomatini, Fordini and Pemphigini), 31 genus, and 7 subgenus of Aphididae.

### **Anoeciinae: Anoecini**

**Anoecia** Koch, 1857

**Anoecia corni** (Fabricius, 1775)

**Distribution in Turkey:** Ankara, Bitlis, Diyarbakır, İçel, İstanbul, Tekirdağ (Tuatay & Remaudière, 1964; Düzgüneş et al., 1982; Toros et al., 2002).

**Material examined:** *Lycopersicum esculentum* L., Çermik, 1.7.1999.

**Occurrence:** Rarely.

### **Aphidinae: Aphidini: Aphidina**

**Aphis** Linnaeus, 1758

\* **Aphis affinis** del Guercio, 1911

**Distribution in Turkey:** Adana, Ankara, Bitlis, İçel, Kahramanmaraş (Tuatay & Remaudière, 1964; Düzgüneş et al., 1982; Zeren, 1989; Aslan, 2002; Toros et al., 2002).

**Material examined:** *Mentha* sp.; Central province, 4.5.1999, 12.5.1999; Çınar, 8.6.1999; Hani, 18.5.1999.

**Occurrence:** Occasionally.

\* *Aphis avicularis* (Hille Ris Lambers, 1931)

**Distribution in Turkey:** Ankara, Van (Tuatay & Remaudière, 1964).

**Material examined:** *Polygonum aviculare*, Çüngüş, 11.6.1999.

**Occurrence:** Rarely.

\* *Aphis callunae* Theobald, 1915

**Distribution in Turkey:** Ankara (Tuatay & Remaudière, 1964).

**Material examined:** *Erica* sp., Çınar, 16.7.1999.

**Occurrence:** Rarely.

\* *Aphis chloris* Koch, 1854

**Distribution in Turkey:** Van (Tuatay & Remaudière, 1964).

**Material examined:** *Hypericum empetrifolium* Willd. roots, Bismil, 14.6.1999.

**Occurrence:** Rarely.

*Aphis craccivora* Koch, 1854

**Distribution in Turkey:** Adana, Ankara, Antalya, Aydın, Balıkesir, Bolu, Burdur, Bursa, Diyarbakır, East Mediterranean region, Giresun, İstanbul, Kahramanmaraş, Manisa, Mardin, Şanlıurfa, Van (Bodenheimer & Swirski, 1957; Çanakçıoğlu, 1967; Giray, 1974; Düzgüneş et al., 1982; Akkaya & Uygun, 1996; Toros et al., 1996; Aslan, 2002; Toros et al., 2002).

**Material examined:** *Senecio vulgaris* L., Central province, 6.12.1998, 4.5.1999; *Centaurea* sp., Central province, 5.5.1999; *Robinia pseudacacia* L., Central province, 5.5.1999, 12.5.1999; Bismil, 17.7.1998, 21.7.1998, 07.7.1999; Çermik, 12.6.1999; Çınar, 27.8.1998; Çüngüş, 11.6.1999; Ergani, 21.7.1998; Hani, 18.5.1999; Kocaköy, 11.8.1999; *Capsella bursa-pastoris* (L.), Central province, 5.5.1999; *Amaranthus* sp., Central province, 5.6.1999; *Phaseolus vulgaris* L., Central province, 5.6.1999; Çermik, 12.6.1999; *Citrullus vulgaris*, Bismil, 12.6.1999; 7.7.1999; *Glycyrrhiza glabra* L., Bismil, 12.6.1999, 7.7.1999; Hani, 18.5.1999; *Solanum nigrum* L., Çermik, 12.6.1999; *Mentha* sp., Hani, 18.5.1999; *Lycopersicum esculentum* L., Hani, 18.5.1999; *Tribulus terrestris* L., Hani, 21.7.1999; undetermined weed, Lice, 3.5.1998; *Portulaca oleracea* L., Lice, 3.8.1999.

**Occurrence:** Commonly.

\* *Aphis davletshinae* Hille Ris Lambers, 1966

**Distribution in Turkey:** Malatya, Ankara (Tuatay & Remaudière, 1964; Düzgüneş et al., 1982).

**Material examined:** Undetermined weed, Hazro, 18.6.1999.

**Occurrence:** Rarely.

*Aphis fabae* Scopoli, 1763

**Distribution in Turkey:** Aegean region, Adana, Ankara, Antalya, Diyarbakır, Edirne, East Mediterranean region, Hatay, İçel, İstanbul, Kırklareli, Konya, Niğde,

Şanlıurfa, Tekirdağ, Van (İyriboz, 1937; Schimitschek, 1944; Bodenheimer & Swirski, 1957; Tuatay & Remaudière, 1964; Çanakçıoğlu, 1967; Giray, 1974; Çanakçıoğlu, 1975; Düzgüneş et al., 1982; Zeren, 1989; Toros et al., 1996; Özdemir & Toros, 1997; Bayhan & Özder, 1999; Toros et al., 2002).

**Material examined:** *Cirsium arvense* (L.), Central province, 6.12.1998, 3.5.1999, 4.5.1999, 6.5.1999, 12.5.1999, 13.5.1999, 18.5.1999; Hani, 18.5.1999; *Urtica* sp., Central province, 6.12.1998, 3.5.1999; *Centaurea* sp, Central province, 4.5.1999; *Gallium* sp., Central province, 4.5.1999; *Osyris alba* L., Central province, 13.5.1999; *Amaranthus* sp., Central province, 30.11.1998; *Rumex crispus* L., Central province, 6.12.1998; Çüngüş, 11.6.1999; *Nicotiana tabacum* L., Bismil, 7.7.1999; *Medicago sativa* L., Çüngüş, 11.6.1999; *G. glabra*, Ergani, 21.7.1999; *P. vulgaris*, Ergani, 21.7.1999; *P. oleracea* L., Hazro, 1.8.1999; *L. esculentum*, Hazro, 1.8.1999.

**Occurrence:** Commonly.

*Aphis fabae solanella* Theobald, 1914

**Distribution in Turkey:** Ankara, Diyarbakır, East Mediterranean region, İstanbul, İzmir, Van (Giray, 1974; Çanakçıoğlu, 1975; Düzgüneş et al., 1982; Zeren, 1989; Toros et al., 1996; Toros et al., 2002).

**Material examined:** *Solanum* sp., Central province, 5.6.1999; *S. nigrum*, Bismil, 25.8.1998, 7.7.1999, 25.8.1998; Çınar, 27.8.1998; Dicle, 28.7.1999, Ergani, 21.7.1999; Hani, 18.5.1999; Kocaköy, 4.6.1998, 11.8.1999.

**Occurrence:** Commonly.

\* *Aphis frangulae* Kaltenbach, 1845

**Distribution in Turkey:** Adana, Kahramanmaraş (Aslan, 2002; Toros et al., 2002; Tezcan, 2003).

**Material examined:** *Lycopersicum esculentum* L., Çermik, 1.7.1999.

**Occurrence:** Rarely.

*Aphis gossypii* Glover, 1877

**Distribution in Turkey:** Cosmopolite (Bodenheimer & Swirski, 1957; Toros et al., 2002; Tezcan, 2003).

**Material examined:** *Gossypium* sp., Central province, 20.10.1998, Bismil, 7.7.1999, 25.8.1999; Çermik, 29.7.1998; *T. terrestris*, Central province, 20.10.1998; *P. vulgaris*, Central province, 3.5.1999, 4.5.1999; Çınar, 1.7.1999; *Cucurbita pepo* L., Central province, 4.5.1999; Bismil, 14.8.1999; Eğil, 30.7.1999; Ergani, 21.7.1998, 16.8.1999; Hazro, 18.6.1999; Lice, 17.7.1998; Kocaköy, 2.8.1998, 11.8.1999; *Ficus carica* L., Central province, 12.5.1999, 5.6.1999; Çermik, 12.6.1999; *Solanum melongena* L., Bismil, 17.7.1998, 25.8.1998; Çermik, 1.7.1999; Eğil, 30.7.1999; Kocaköy, 11.8.1999; *Capsicum annum* L., Bismil, 25.8.1998; Çermik, 1.7.1999, 21.7.1999; Ergani, 27.6.1998; *Cucumis sativus* L., Bismil, 7.7.1999; Eğil, 30.7.1999; Ergani, 21.7.1999; Kocaköy, 11.8.1999; *Citrullus vulgaris* L., Bismil, 7.7.1999;

Çermik, 29.7.1998, 1.7.1999; Ergani, 21.7.1998; Kocaköy, 11.8.1999; **Mentha piperita** L., Çınar, 8.6.1999; Çermik, 12.6.1999, **Cucumis melo** L., Eğin, 30.7.1999; **Polygonum** sp., Ergani, 21.7.1999; **P. oleracea**, Ergani, 21.7.1999; **A. hybridus** L., Ergani, 21.7.1999; **A. blibides** L., Ergani, 21.7.1999; **Hibiscus esculentus** L., Lice, 3.8.1999; **L. esculentum**, Silvan, 1.8.1999; **C. bursa-pastoris**, Ergani, 3.5.1999.

**Occurrence:** Commonly.

\* **Aphis nerii** Boyer de Fonscolombe, 1841

**Distribution in Turkey:** Ankara, Antalya, East Mediterranean region, İzmir, Kahramanmaraş (Bodenheimer & Swirski, 1957; Çanakçıoğlu, 1967; Giray, 1974; Aslan 2002; Toros et al., 2002).

**Material examined:** **Nerium olander** L., Central province, 18.11.1998; Hazro, 18.6.1999.

**Occurrence:** Occasionally.

**Aphis pomi** de Geer, 1773

**Distribution in Turkey:** Cosmopolite (Lodos, 1982; Toros et al., 2002).

**Material examined:** **Cydonia vulgaris** Pers., Central province, 12.5.1999; **Malus communis** (L.), Central province, 14.5.1999; Hazro, 18.6.1999.

**Occurrence:** Frequently.

**Aphis punicae** Passerini, 1863

**Distribution in Turkey:** Cosmopolite (Tuatay & Remaudière, 1964; Çanakçıoğlu, 1975; Toros et al., 2002).

**Material examined:** **Punica granatum** L., Central province, 3.5.1999, 6.5.1999; Bismil, 7.7.1999; Çermik, 29.7.1998, 1.7.1999; Çınar, 4.10.1998, 8.6.1999; Ergani, 27.11.1998.

**Occurrence:** Commonly.

\* **Aphis spiraeicola** Patch, 1914

**Distribution in Turkey:** Ankara, East Mediterranean region (Tuatay & Remaudière, 1964; Düzgüneş et al., 1982; Yumruktepe & Uygun, 1994; Toros et al., 2002).

**Material examined:** **Prunus domestica** L., Bismil, 7.7.1999.

**Occurrence:** Rarely.

\* **Aphis tirucallis** Hille Ris Lambers, 1954

**Distribution in Turkey:** Ankara, East Mediterranean region (Düzgüneş et al., 1982; Toros et al., 2002).

**Material examined:** **Euphorbia** sp., Hazro, 18.6.1999.

**Occurrence:** Rarely.

\* **Aphis urticata** J.F. Gmelin, 1790

**Distribution in Turkey:** Ankara, East Mediterranean region (Bodenheimer & Swirski, 1957; Toros et al., 2002).

**Material examined:** *Urtica* sp., Central province, 3.5.1999.

**Occurrence:** Rarely.

**Aphidinae: Aphidini: Aphidina**

*Hyalopterus* Koch, 1854

*Hyalopterus amygdali* (Blanchard, 1840)

**Distribution in Turkey:** Ankara, Diyarbakır, East Mediterranean region, Kahramanmaraş, Siirt, Şanlıurfa (Düzgüneş et al., 1982; Uygun et al., 1995; Aslan, 2002; Toros et al., 2002).

**Material examined:** *Prunus amygdalus* (L.), Central province, 3.5.1999; Çüngüş, 11.6.1999; Hazro, 18.6.1999.

**Occurrence:** Frequently.

*Hyalopterus pruni* (Geoffroy, 1762)

**Distribution in Turkey:** Ankara, Antalya, East Mediterranean region, Gaziantep, İzmir, Kahramanmaraş (Düzgüneş & Tuatay, 1956; Bodenheimer & Swirski, 1957; Çanakçıoğlu, 1975; Düzgüneş et al., 1982; Aslan, 2002, Toros et al., 2002).

**Material examined:** *Phragmites* sp., Central province, 20.6.1998; Bismil, 7.7.1999; Kocaköy, 2.8.1998; undetermined weed, Central province, 3.5.1999; *P. domestica*, Central province, 5.5.1999, 14.5.1999, 18.5.1999; Çermik, 1.7.1999; Çınar, 4.10.1998; Lice, 3.5.1998; Silvan, 4.5.1999; *Prunus persica* (L.), Central province, 5.5.1999, 12.5.1999, 14.5.1999, 18.6.1999; Çermik, 29.7.1998; Çüngüş, 11.6.1999; Hazro, 18.5.1999; *Prunus armeniaca* L., Central province, 5.5.1999, 12.5.1999; *Prunus cerasus* L., Central province, 18.6.1999; Hani, 18.5.1999.

**Occurrence:** Commonly.

*Rhopalosiphum* Koch, 1854

\* *Rhopalosiphum nymphaeae* (Linnaeus, 1761)

**Distribution in Turkey:** Cosmopolite (Çanakçıoğlu, 1975).

**Material examined:** *Prunus domestica* L., Central province, 6.7.1998; *P. cerasus*, Çınar, 4.10.1998.

**Occurrence:** Occasionally.

*Rhopalosiphum maidis* (Fitch, 1856)

**Distribution in Turkey:** Cosmopolite (Çanakçıoğlu, 1975; Toros et al., 2002).

**Material examined:** *Zea mays* L., Central province, 28.7.1999; Bismil, 7.7.1999; Çermik, 1.7.1999; Dicle, 12.7.1999; Ergani, 21.7.1999; Hazro, 18.6.1999; Lice, 3.8.1999; Kocaköy, 4.7.1998; *Sorghum* sp., Bismil, 7.7.1999; Lice, 3.8.1999.

**Occurrence:** Commonly.

*Rhopalosiphum padi* (Linnaeus, 1758)

**Distribution in Turkey:** Ankara, Diyarbakır, East Mediterranean region, Edirne, Kahramanmaraş, Konya, Kırklareli, Mardin, Ordu, Tatvan, Tekirdağ,

Şanlıurfa, Şımak (Tuatay & Remaudière, 1964; Düzgüneş et al., 1982; Elmali & Toros, 1994; Kıran, 1994; Tozlu & Alaoğlu, 1994; Bayhan & Ozder, 1999; Aslan 2002; Toros et al., 2002).

**Material examined:** *Triticum durum* L., Central province, 5.5.1999; *Hordeum sativum* L., Central province, 5.5.1999; *Sorghum* sp., Çınar, 8.6.1999.

**Occurrence:** Occasionally.

#### **Macrosiphini**

*Acyrtosiphon* Mordvilko, 1914

*Acyrtosiphon pisum* (Harris, 1776)

**Distribution in Turkey:** Cosmopolite (Lodos, 1982; Toros et al., 2002).

**Material examined:** *M. sativa*, Çüngüş, 11.6.1999.

**Occurrence:** Rarely.

*Aulacorthum* Mordvilko, 1914

\* *Aulacorthum solani* (Kaltenbach, 1843)

**Distribution in Turkey:** East Mediterranean region, İstanbul (Tuatay, 1988; Toros et al., 2002)

**Material examined:** *L. esculentum*, Central province, 6.1.1998.

**Occurrence:** Rarely.

*Brachycaudus* van der Goot, 1913

*Brachycaudus helichrysi* (Kaltenbach, 1843)

**Distribution in Turkey:** Adana, Adıyaman, Ankara, Diyarbakır, East Mediterranean region, Gaziantep, İstanbul, Kahramanmaraş, Mardin, Siirt (Tuatay & Remaudière, 1964; Tuatay et al., 1972; Giray, 1974; Düzgüneş et al., 1982; Uygun et al., 1995; Aslan, 2002; Toros et al., 2002).

**Material examined:** *P. domestica*, Central province, 7.12.1998, 4.5.1999, 5.5.1999, 6.5.1999; Hani, 18.5.1999; Hazro, 6.5.1999; Silvan, 18.5.1999; *Calendula officinalis* L., Lice, 3.8.1999.

**Occurrence:** Commonly.

\* *Brachycaudus (Acaudus) cardui* (Linnaeus, 1758)

**Distribution in Turkey:** Ankara, Bitlis, East Mediterranean region, Trabzon (Bodenheimer & Swirski, 1957; Tuatay & Remaudière, 1964; Çanakçıoğlu, 1975; Toros et al., 2002).

**Material examined:** *Prunus domestica* L., Silvan, 18.5.1999; *Cirsium* sp., Hani, 5.5.1999.

**Occurrence:** Occasionally.

\* *Brachycaudus (Acaudus) lycnidis* (Linnaeus, 1758)

**Distribution in Turkey:** Çankırı (Tuatay & Remaudière, 1964).

**Material examined:** *Silene* sp., Çüngüş, 12.6.1999.

**Occurrence:** Rarely.

\* ***Brachycaudus (Appelia) tragopogonis*** (Kaltenbach, 1843)

**Distribution in Turkey:** Ankara, East Mediterranean region, Eskişehir, Malatya, Kahramanmaraş, Kırşehir (Düzgüneş & Tuatay, 1956; Tuatay & Remaudière, 1964; Düzgüneş et al., 1982; Aslan 2002; Toros et al., 2002).

**Material examined:** *Tragopogon longirostris* var. *longirostris* L., Çınar, 8.6.1999.

**Occurrence:** Rarely.

***Brachycaudus (Thuleaphis) amygdalinus*** (Schouteden, 1905)

**Distribution in Turkey:** Ankara, Elazığ, Isparta (Bodenheimer & Swirski, 1957; Tuatay & Remaudière, 1964).

**Material examined:** *Amygdalus communis* L., Central province, 3.5.1999; *C. officinalis*, Hani, 5.5.1999.

**Occurrence:** Occasionally.

***Brevicoryne*** van der Goot., 1915

***Brevicoryne brassicae*** (Linnaeus, 1758)

**Distribution in Turkey:** Ankara, East Mediterranean region, Hatay, İzmir, Kahramanmaraş, Van, Şanlıurfa (Düzgüneş & Tuatay, 1956; Giray, 1974; Düzgüneş et al., 1982; Zeren, 1989; Avcı & Özbek, 1991; Uygun et al., 1995; Toros et al., 1996; Aslan, 2002; Toros et al., 2002).

**Material examined:** *Brassica oleraceae* var. *capitata*, Central province, 2.12.1998; Bismil, 7.7.1999; Hazro, 18.6.1999; Lice, 3.8.1999.

**Occurrence:** Frequently.

***Dysaphis*** Börner, 1931

***Dysaphis*** (s.str.) *devecta* (Walker 1849)

**Distribution in Turkey:** Adana, Ankara, İçel, Malatya, Van (Tuatay & Remaudière, 1964; Düzgüneş et al., 1982; Toros et al., 1996; Toros et al., 2002).

**Material examined:** *M. communis*, Central province, 4.5.1999.

**Occurrence:** Rarely.

***Dysaphis (Pomaphis) plantaginea*** (Passerini, 1860)

**Distribution in Turkey:** Ankara, Antalya, Çanakkale, Diyarbakır, East Mediterranean region, Gaziantep, Giresun, Gümüşhane, Elazığ, Niğde, Isparta, İzmir, Kahramanmaraş, Kayseri, Sakarya, Samsun, Şanlıurfa, Tekirdağ (Bodenheimer & Swirski, 1957; Tuatay, 1990; Aslan 2002; Toros et al., 2002).

**Material examined:** *Cydonia vulgaris* Pers., Central province, 5.5.1999; *M. communis*, Central province, 6.12.1998, 12.5.1999, 14.5.1999; Ergani, 27.11.1998; Lice, 3.5.1998.

**Occurrence:** Commonly.

***Dysaphis (Pomaphis) pyri*** (Boyer de Fonscolombe, 1841)

**Distribution in Turkey:** Adana, Ankara, Isparta, İçel, İzmir, Konya, Niğde (Bodenheimer & Swirski, 1957; Tuatay & Remaudière, 1964; Giray, 1974; Düzgüneş et al., 1982; Toros et al., 1996; Toros et al., 2002).



**Material examined:** *Cydonia vulgaris* Pers., Central province, 5.5.1999;  
*Prunus communis* L., Central province, 14.5.1999; Çınar, 8.6.1999.

**Occurrence:** Occasioanlly.

*Hayhurstia* del Guercio, 1917

\* *Hayhurstia atriplicis* (Linnaeus, 1761)

**Distribution in Turkey:** Ankara, Antalya, East Mediterranean region, Edirne, Elazığ, Eskişehir, Van (Bodenheimer & Swirski, 1957; Tuatay & Remaudière, 1964; Çanakçıoğlu, 1967; Tuatay, 1990; Toros et al., 2002).

**Material examined:** *Chenopodium album* L., Bismil, 7.7.1999.

**Occurrence:** Rarely.

*Hyadaphis* Kirkaldy, 1904

\* *Hyadaphis tataricae* (Aizenberg, 1935)

**Distribution in Turkey:** Ankara, Kahramanmaraş (Toros, 1986; Aslan, 2002).

**Material examined:** *Lonicera tatarica* L., Central province, 3.5.1999.

**Occurrence:** Rarely.

*Hyperomyzus* Börner, 1933

\* *Hyperomyzus lactucea* (Linnaeus, 1758)

**Distribution in Turkey:** East Mediterranean region, Eskişehir, İstanbul (Tuatay & Remaudière, 1964; Toros et al., 2002).

**Material examined:** *Sonchus* sp., Hazro, 18.6.1999.

**Occurrence:** Rarely.

*Lipaphis* Mordilko, 1928

\* *Lipaphis erysimi* (Kaltenbach, 1843)

**Distribution in Turkey:** Adana, Gaziantep (Tuatay & Remaudière, 1964; Toros et al., 2002).

**Material examined:** *Raphanus sativus* L., Central province, 2.12.1998.

**Occurrence:** Rarely.

*Macrosiphoniella* del Guercio, 1911

*Macrosiphoniella artemisiae* (Boyer de Fonscolombe, 1841)

**Distribution in Turkey:** Ankara, Kahramanmaraş (Tuatay, 1990; Aslan 2002).

**Material examined:** *Artemisia* sp., Central province, 12.9.1999; Çüngüş, 18.6.1999.

**Occurrence:** Occasionally.

*Macrosiphum* Passerini, 1860

\* *Macrosiphum funestum* (Macchiati, 1855)

**Distribution in Turkey:** Artvin, Bolu, Giresun, Kastamonu, Rize (Çanakçıoğlu, 1975; Tuatay, 1990).

**Material examined:** *Spiraea vanhoutei* L., Central province, 12.5.1999; *Centaurea* sp., Hani, 18.5.1999.

**Occurrence:** Occasionally.

\* *Macrosiphum rosae* (Linnaeus, 1758)

**Distribution in Turkey:** Ankara, East Mediterranean region, İstanbul, Isparta, İzmir, Van (Bodenheimer & Swirski, 1957; Giray, 1974; Düzgüneş et al., 1982; Toros et al., 1996; Toros et al., 2002).

**Material examined:** *Rosa* sp., Central province, 3.5.1999, 4.5.1999, 5.5.1999, 5.6.1999, 12.5.1999; Bismil, 7.7.1999; Çermik, 12.6.1999; Hani, 18.5.1999; Hazro, 18.6.1999; Kocaköy, 8.4.1999.

**Occurrence:** Commonly.

*Myzus* Passerini, 1860

*Myzus cerasi* (Fabricius, 1775)

**Distribution in Turkey:** Ankara, East Mediterranean region, West and Middle Anatolia, Gümüşhane, İstanbul, İznik, Kars, Kahramanmaraş, Rize (Bodenheimer & Swirski, 1957; Lodos, 1982; Aslan, 2002; Toros et al., 2002).

**Material examined:** *Prunus avium* L., Çüngüş, 11.6.1999.

**Occurrence:** Rarely.

*Myzus (Nectarosiphon) persicae* (Sulzer, 1776)

**Distribution in Turkey:** Cosmopolite (Lodos, 1982; Toros et al., 2002).

**Material examined:** *M. communis*, Central province, 30.11.1998; Çınar, 8.6.1999; *C. annuum*, Central province, 7.12.1998; *Duranta repens* L., Central province, 3.5.1999; *P. persica*, Central province, 5.5.1999; *Nicotiana tabacum* L., Bismil, 7.7.1999; Çermik, 1.7.1999; Kocaköy, 11.8.1999; Lice, 3.8.1999; *L. esculentum*, Çınar, 8.6.1999; Hani, 18.5.1999; *P. domestica*, Çınar, 8.6.1999; *C. sativus*, Çınar, 8.6.1999; *Mentha* sp., Hani, 18.5.1999; *C. annuum*, Hani, 18.5.1999; Kocaköy, 11.8.1999.

**Occurrence:** Commonly.

*Ovatus* van der Goot, 1913

\* *Ovatus crataegarius* (Walker, 1850)

**Distribution in Turkey:** Ankara (Tuatay & Remaudière, 1964).

**Material examined:** *Crataegus orientalis* L., Hani, 18.5.1999.

**Occurrence:** Rarely.

*Ovatus insitus* (Walker, 1849)

**Distribution in Turkey:** Ankara, Diyarbakır, Elazığ, İzmir, Niğde, Sakarya, Trabzon (Tuatay & Remaudière, 1964).

**Material examined:** *C. vulgaris*, Central province, 6.12.1998; 5.5.1999.

**Occurrence:** Occasionally.

**Sitobion** Mordvilko, 1914

**Sitobion avenae** (Fabricius, 1775)

**Distribution in Turkey:** Adana, Ağrı, Ankara, Aydın, Bolu, Çanakkale, Denizli, Diyarbakır, Erzurum, Isparta, İzmir, Kırklareli, Konya, Malatya, Mardin, Niğde, Samsun, Sinop, Şanlıurfa, Şımak, Yozgat, Tekirdağ, Van (İyriboz & İleri, 1941; Tuatay et al., 1972; Düzgüneş et al., 1982; Tuatay, 1991; Elmalı & Toros, 1994; Kıran, 1994; Toros et al., 1996; Özder & Toros, 1999; Toros et al., 2002).

**Material examined:** *Triticum durum* L., Central province, 5.5.1999; Çüngüş, 11.6.1999; Hazro, 18.6.1999.

**Occurrence:** Frequently.

**Uroleucon** Mordvilko, 1914

\* **Uroleucon** (s.str.) *sonchi* Linnaeus, 1767

**Distribution in Turkey:** Adana, Ankara, Antalya, Aydın, Çanakkale, Hatay, İstanbul, İzmir, Kırklareli, Sakarya (Bodenheimer & Swirski, 1957; Tuatay & Remaudière, 1964; Giray, 1974; Çanakçıoğlu, 1975; Düzgüneş et al., 1982; Tuatay, 1991; Toros et al., 2002).

**Material examined:** *Sonchus arvensis* L., Central province, 4.5.1999, 5.6.1999; Hani, 18.5.1999; Hazro, 18.6.1999; *Spiraea vonhauitti* L., Hani, 18.5.1999.

**Occurrence:** Frequently.

**Uroleucon (Uromelan) carthami** (Hille Ris Lambers, 1848)

**Distribution in Turkey:** Adana, Ankara, Mersin, Muğla (Tuatay & Remaudière, 1964; Toros et al., 2002).

**Material examined:** From undetermined weed, Lice, 3.5.1998.

**Occurrence:** Rarely.

**Chaitophorinae: Chaitophorini**

**Chaitophorus** Koch, 1854

**Chaitophorus leucomelas** Koch, 1854

**Distribution in Turkey:** Adana, Ankara, Adapazarı, Bozova (Şanlıurfa), Diyarbakır, İçel, İstanbul, Kaş (Antalya), Kırşehir, Milas (Muğla), Niğde, Van (Bodenheimer & Swirski, 1957; Tuatay & Remaudière, 1964; Çanakçıoğlu, 1975; Toros et al., 1996; Toros et al., 2002).

**Material examined:** *Populus* sp., Central province, 18.11.1998, 14.8.1999, 28.10.1998; Ergani, 27.11.1998; Hani, 18.5.1999; Hazro, 18.6.1999; Lice, 3.8.1999; Kocaköy, 11.8.1999.

**Occurrence:** Commonly.

\* **Chaitophorus salijapanicus niger** Mordvilko, 1929

**Distribution in Turkey:** Ankara, Antalya, Burdur, Tatvan (Tuatay & Remaudière, 1964; Çanakçıoğlu, 1967; Tuatay et al., 1972; Düzgüneş et al., 1982; Toros et al., 2002).

**Material examined:** *Salix* sp., Central province, 9.11.1998, 12.5.1999; Çınar, 8.6.1999; Ergani, 27.11.1998.

**Occurrence:** Frequently.

**Lachninae: Cinarini**

*Eulachnus* del Guercio, 1909

\* *Eulachnus tuberculostematus* (Theobald, 1915)

**Distribution in Turkey:** Van, Adana (Toros et al., 1996; Toros et al., 2002).

**Material examined:** *Pinus* sp., Central province, 4.5.1999.

**Occurrence:** Rarely.

**Lachnini**

*Lachnus* Burmeister, 1835

*Lachnus roboris* (Linnaeus, 1758)

**Distribution in Turkey:** Ankara, Artvin, Diyarbakır, İstanbul, Kahramanmaraş, Mardin (Düzgüneş & Tuatay, 1956; Bodenheimer & Swirski, 1957; Çanakçıoğlu, 1967; Aslan, 2002).

**Material examined:** *Pinus* sp., Çermik, 1.7.1999; Dicle, 28.7.1999; Ergani, 21.7.1999; Lice, 3.8.1999.

**Occurrence:** Commonly.

*Tuberolachnus* Mordvilko, 1909

*Tuberolachnus salignus* (J. F. Gmelin, 1790)

**Distribution in Turkey:** Adana, Ankara, Diyarbakır, Hazar Lake (Elazığ), İstanbul, Kahramanmaraş, Kars, Van (Bodenheimer & Swirski, 1957; Tuatay & Remaudière, 1964; Çanakçıoğlu, 1967; Düzgüneş et al., 1982; Aslan, 2002; Toros et al., 2002).

**Material examined:** *Salix* sp., Central province, 20.10.1998; Eğil, 27.11.1998.

**Occurrence:** Occasionally.

**Myzocallidinae: Myzocallidini**

*Chromaphis* Walker, 1870

\* *Chromaphis juglandicola* Kaltenbach, 1843

**Distribution in Turkey:** Antalya, Middle and West Anatolia, East Mediterranean region, Kahramanmaraş (Lodos, 1982; Aslan, 2002; Toros et al., 2002).

**Material examined:** *Juglans* sp., Central province, 5.5.1999; Hani, 18.5.1999; Hazro, 18.6.1999.

**Occurrence:** Occasionally.

*Panaphis* Kirkaldy, 1904

\* *Panaphis juglandis* (Goeze, 1778)

**Syn.:** *Callaphis juglandis* Walker, 1870

**Distribution in Turkey:** Ankara, Artvin, East Mediterranean region, İstanbul, İzmir, Niğde, Antalya (Kaş), Trabzon (Düzgüneş & Tuatay, 1956; Bodenheimer & Swirski, 1957; Çanakçıoğlu, 1967; Düzgüneş et al., 1982; Toros et al., 2002).

**Material examined:** *Juglans* sp., Çermik, 1.7.1999; Çüngüş, 11.6.1999; Hazro 18.6.1999.

**Occurrence:** Occasionally.

*Myzocallis* Passerini, 1860

\* *Myzocallis coryli* (Goetze, 1778)

**Distribution in Turkey:** Ankara, İstanbul, Trabzon (Fahringer, 1922; Düzgüneş & Tuatay, 1956; Bodenheimer & Swirski, 1957; Çanakçıoğlu, 1967).

**Material examined:** *Corylus avellana* L., Çüngüş, 11.6.1999.

**Occurrence:** Rarely.

**Myzocallidinae: Myzocallidini**

*Eriosoma* Leach, 1818

*Eriosoma lanigerum* (Hausmann, 1802)

**Distribution in Turkey:** Cosmopolite wherever apples are found (Alkan, 1953).

**Material examined:** *Malus communis*, Central province, 14.5.1999; Çermik, 1.7.1999.

**Occurrence:** Occasionally.

**Fordini**

*Forda* van Heyden, 1837

*Forda formicaria* van Heyden, 1837

**Distribution in Turkey:** Adana, Burdur, Bursa, Diyarbakır, İçel, İstanbul, İznik, Konya (Trotter, 1903; Schimitschek, 1944; Çanakçıoğlu, 1975; Elmalı ve Toros, 1996; Toros et al., 2002).

**Material examined:** Half-moon-shaped galls on *Pistacia vera* L., Silvan, 1.8.1999.

**Occurrence:** Rarely.

*Kaltenbachiella* Schouteden, 1906

\* *Kaltenbachiella pallida* (Haliday, 1838)

**Distribution in Turkey:** Ankara, Bandırma, Bursa, Eskişehir, İstanbul, İzmir, Söke (Aydın), Trabzon (Alkan, 1953; Çanakçıoğlu, 1967; Tuatay, 1967).

**Material examined:** *Ulmus campestris* L., Central province, 9.7.1999.

**Occurrence:** Scarcely.

*Patchiella* Tullgren, 1927

*Patchiella* sp.

**Material examined:** From undetermined weed, Central province, 30.11.1998.

**Occurrence:** Rarely.

**Pemphigini**

*Pemphigus* Hartig, 1839

*Pemphigus bursarius* (Linnaeus, 1758)

**Distribution in Turkey:** Ankara, Bursa, İstanbul, Eskişehir, Kahramanmaraş, Konya, Trabzon (Çanakçıoğlu, 1975).

**Material examined:** *Populus* sp., Çınar, 8.6.1999,

**Occurrence:** Rarely.

\* *Pemphigus immunis* Buckton, 1896

**Distribution in Turkey:** Adana, Afyon, Ankara, Antalya, Artvin, Beyşehir, Burdur, Denizli, Eskişehir, İçel, İstanbul, İzmir, Kahramanmaraş, Niğde, Trabzon (Alkan, 1953; Çanakçıoğlu, 1967; Aslan, 2002; Toros et al., 2002).

**Material examined:** *Ulmus* sp., Central province, 13.6.1998; Dicle, 28.7.1999; Hani, 18.5.1999; Hazro, 18.6.1999.

**Occurrence:** Commonly.

## Özet

### Diyarbakır İli Aphididae (Homoptera) faunasının saptanması

Diyarbakır İlinde 1998-2000 yıllarında Aphididae familyasına bağlı türlerin surveyi yapılmıştır. Survey sonucunda farklı konukçu bitkiler üzerinde 63 tür saptanmış olup, bunların Türkiye'deki dağılımları, toplandıkları yer ve tarihler ile görünüm sıklıkları açıklanmıştır. Bunlardan 30 tür Diyarbakır İli lokal faunası için yeni kayıt niteliğindedir.

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