

The taxonomic characteristics of the prepared samples were examined, and were compared with the definitions in the literature (Dlabola 1957, 1977, 1981; Emelyanov 1964; Ossianilsson 1983). Then these samples were compared to previously identified museum samples which had been found at Entomology Museum at Ondokuz Mayıs University. Finally, the species were identified.

The geographic distribution of these species was given according to the present literature (Dlabola, 1957, 1971, 1977, 1981; Emelyanov, 1964; Nast, 1972; Kalkandelen, 1974; Ossianilsson, 1983; Lodos & Kalkandelen, 1985, 1987 a,b; Güçlü & Özbek, 1994, 1995; Zeybekoğlu, 1998) and *Cicadula flori* (J. Sahlberg) and *Hardya iranica* Zachvatkin were determined to be new records for the fauna of Turkey. The values of the body measurements of these two newly recorded species are given in Table 1. The synonym list is given according to Nast (1972) catalogue as follows.

Result and Discussion

1. *Circulifer haematoceps* (Mulsant & Rey, 1855)

Jassus haematoceps Mulsant & Rey, 1855; *Jassus (Thamnotettix) haagii* Kirschbaum, 1868; *Jassus (Deltocephalus) opacus* Kirschbaum, 1868; *Jassus (Deltocephalus) rubrotinctus* Kirschbaum, 1868; *Cicadula opacipennis* Lethierry, 1876; *Cicadula vittiventris* Lethierry, 1876; *Thamnotettix opacus diluta* Ferrari, 1882; *Thamnotettix opacus picta* Ferrari, 1882; *Thamnotettix opacus minor* Ferrari, 1884; *Thamnotettix haematoceps futilis* Horvath, 1909; *Thamnotettix unicolor* Haupt, 1927; *Circulifer haupti* Zachvatkin, 1935; *Circulifer viridiflavus* Lindberg, 1948; *Circulifer interibilis* Lindberg, 1948.

General distribution: Afghanistan, Algeria, Armenia, Austria, Azerbaijan, Canary Is., Cyprus, Czech Republic, Egypt, France, Georgia, Germany, Greece (Crete), Hungary, Iran, Italy (also Sardinia and Sicily), Jordan, Kazakhstan, Kirghizia, Lebanon, Libya, Madeira Archipelago, Moldova, Mongolia, Morocco, Poland, Romania, Russia, Slovakia, Spain, Syria, Tunisia, Turkey (Anatolia), Turkmenia, Ukraine, Uzbekistan, Yugoslavia (Dlabola, 1971; Nast, 1972).

Distribution in Turkey: Ağrı, Erzurum (Kandilli), İzmit (Sapanca), Kayseri (Bünyan, Gürün), Nevşehir (Gülşehir, Ürgüp), Tunceli (Munzur, Pülümür), Van (Başkale, Erdemli) (Kalkandelen, 1974; Dlabola, 1981; Lodos & Kalkandelen, 1985).

Material examined: Yenimahalle 26.05.1997 - 2♂♂, 6♀♀; Dize 27.05.1997 - 3♂♂, 8♀♀; 20.06.1997 - 4♂♂, 1♀; 07.10.1997 - 1♂; Kiran 01.06.1997 - 2♂♂; Güllüce 07.06.1997 - 4♂♂, 3♀♀; 25.10.1997 - 1♂; Güngör 15.06.1997 - 6♂♂, 2♀♀; Yüksekova 08.06.1997 3♂♂, 2♀♀; Güçlü 13.09.1997 1♂; Yukarı Ölçek 27.09.1997 - 1♂, 2♀♀.

2. *Balclutha punctata* (Fabricius, 1775)

Cicada punctata Fabricius, 1775; *Cicada punctata* Thunberg, 1784; *Cicada tricolor* Gmelin, 1790; *Eupteryx clypeata* Curtis, 1837; *Cicadula spreta* Zetterstedt, 1840; *Gnathodus punctatus confluens* Rey, 1894; *Gnathodus punctatus impunctatus* Rey, 1894 *Gnathodus punctatus lineolatus* Horvath, 1904; *Gnathodus punctatus thalassicus* Sidoriski, 1937; *Balclutha punctata taunica* Wagner, 1939; *Balclutha punctata langi* Dlabola, 1944; *Balclutha punctata sagittaria* Ribaut, 1952.

Table 1. Measurements of the species given in this study as new records for the fauna of Turkey (mm)

Species	n	Head width		Vertex length		Pronotum length		Pronotum width		Mesonotum length		Body length		Body width		
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
<i>Hardya iranicola</i>	♂	2	0.954	0.952	0.335	0.333	0.573	0.571	0.954	0.952	0.573	0.571	3.59	3.57	1.20	1.19
			0.952	0.331	0.569	0.569	0.569	0.950	0.950	0.569	0.569	3.55	3.55	1.18	1.18	
	♀	3	1.163	1.098	0.323	0.280	0.517	0.495	1.098	1.077	1.227	0.732	3.876	3.747	1.421	1.335
			1.034	0.258	0.452	0.452	1.034	1.034	0.452	0.452	0.452	3.618	3.618	1.163	1.163	
<i>Cicadula flori</i>	♂	2	1.292	1.292	0.323	0.323	0.581	0.549	1.098	1.098	0.517	0.517	4.910	4.888	1.357	1.324
			1.292	0.323	0.517	0.517	1.098	1.098	0.517	0.517	0.517	4.845	4.845	1.292	1.292	
	♀	2	1.423	1.421	0.454	0.452	0.648	0.646	1.229	1.227	0.648	0.646	5.170	5.168	1.552	1.550
			1.419	0.450	0.644	0.644	1.225	1.225	0.644	0.644	0.644	5.166	5.166	1.548	1.548	

General Distribution: Afghanistan, Albania, Algeria, Armenia, Austria, Azerbaijan, [Australian Nearctic and Oriental regions], Bulgaria, China (Manchuria), Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain (England, Scotland), Greece, Hungary, Ireland, Italy (also Sardinia and Sicily), Iran, Japan (Hokkaido, Honshu, Kyushu), Kazakhstan, Kirghizia, Korean Peninsula, Latvia, Moldavia, Mongolia, Netherlands, Norway, Poland, Portugal, Russia (Altai Mts. Maritime Territory, Sakhalin, Siberia), Slovakia, Sweden, Switzerland, Tunisia, Turkey (Anatolia), Ukraine, Uzbekistan (Nast, 1972; Dlabola, 1981; Lodos & Kalkandelen, 1985).

Distribution in Turkey: Adiyaman (Nemrut), Amasya (Taşova), Ankara (Beynam, Çubuk, Eymir, Karagöl Mogan), Bitlis (Centrum, Çukur), Bolu (Gerede, Kıbrısık, Seben), Diyarbakır, Erzincan (Dumanlı, Refahiye), Erzurum (Hasankale, Uzundere), Iğdır, Isparta (Eğirdir), Ordu (Çambaşı), Samsun, Sinop (Boyabat) (Kalkandelen, 1974; Lodos & Kalkandelen, 1985; Güçlü & Özbek, 1994; Zeybekoğlu, 1998).

Material examined: Güllüce 07.06.1997 - 1♂, 5♀♀; Yenimahalle 08.06.1997 - 1♂; Güçlü 21.06.1997 - 1♂.

3. *Macrosteles fieberi* (Edwards, 1889)

Cicadula frontalis Fieber, 1885 [Primary homonym]; *Cicadula fieberi* Edwards, 1889.

General Distribution: Armenia, Austria, Bulgaria, Czech Republic, Finland, France, Germany, Great Britain (England, Scotland), Ireland, Iran, Kazakhstan, Kirghizia, Moldavia, Mongolia, Netherlands, Norway, Poland, Romania, Slovakia, Sweden, Turkey (Anatolia), Russia (Altai Mts.), Ukraine, Yugoslavia, [Nearctic region] (Nast, 1972; Kalkandelen, 1974; Dlabola, 1981; Lodos & Kalkandelen, 1985).

Distribution in Turkey: Ankara (Atatürk Orman Çiftliği, Çubuk, Elmadağ, Etimesgut, Eymir, Hasanoğlan, Karagöl, Mogan, Yukarı Kışla), Adana (Karataş, Seyhan), Bolu (Gerede), Erzurum, Karaman, Konya (Meram), Nevşehir (Avanos, Göremen), Van (Gevaş) (Dlabola, 1957, 1981; Kalkandelen, 1974; Lodos & Kalkandelen, 1985; Güçlü & Özbek, 1994).

Material examined: Güllüce 07.06.1997- 2♂♂; 25.10.1997 - 7♀♀; Güçlü 13.09.1997 - 1♂, 10 ♀♀; Yukarı Ölçek 27.09.1997 - 3♂♂, 3♀♀; Dize 07.10.1997-6♂♂, 8♀♀.

4. *Macrosteles laevis* (Ribaut, 1927)

Cicadula sexnotata Tullgren, 1925: (Nec Fallen, 1806); *Cicadula laevis* Ribaut, 1927; *Cicadula sexnotata laevis* Haupt, 1935.

General Distribution: Afghanistan, Albania, Arctic, Austria, Bulgaria, Czech Republic, China (Manchuria), Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain (England, Scotland, Wales), Greece (Crete), Hungary, Iceland, Iran, Italy, Kazakhstan, Kirghizia, Latvia, Moldavia, Mongolia, Netherlands,

Norway, Poland, Romania, Slovakia, Sweden, Switzerland, Turkey (Anatolia), Russia (Altai Mts., Kurille is.), Ukraine, Uzbekistan [Nearctic region] (Nast, 1972; Kalkandelen, 1974; Dlabola, 1971, 1977; Lodos & Kalkandelen, 1985; Zeybekoğlu, 1998).

Distribution in Turkey: Amasya (Akdağ), Ankara (Atatürk Orman Çiftliği, Çubuk, Elmadağ, Etimesgut, Eymir, Hasanoğlu, Karagöl, Kayaş, Yukarı Kışla, Lalahan, Mogan), Burdur (Karakent), Erzurum, İzmit (Balaban, Sapanca), Konya (Ereğli, Kasımhan, Kızılviran, Meram, Sultandağ), Karaman, Nevşehir (Avanos, Çardak, Çat, Göceme, Nar, Ürgüp), Ordu (Çambaşı), Samsun, Sinop, Van (Başkale) (Dlabola, 1957; Kalkandelen, 1974; Lodos & Kalkandelen, 1985; Güçlü & Özbek, 1994; Zeybekoğlu, 1998).

Material examined: Güllüce 25.10.1997- 2♂♂, 4♀♀.

5. *Macrosteles sexnotatus* (Fallen, 1806)

Cicada sexnotata Fallen, 1806; *Jassus devastans* Guerin-Meneville, 1852; *Jassus didymus* Mulsant & Rey, 1855; *Cicadula diminuta* Lethierry, 1876; *Cicadula sexnotata binotata* Rey, 1894; *Cicadula sexnotata submaculata* Rey, 1894.

General Distribution: Africa, Algeria, Arctic Island, Armenia, Austria, Azerbaijan, Azores, Belgium, Bulgaria, Canary Is., China (Inner Mongolia, Kansu, Manchuria), Czech Republic, Cyprus, Denmark, Egypt, Estonia, Finland, France, Georgia, German, Great Britain (England, Scotland, Wales), Hawaii Islands, Hungary, Iceland, Iran, Ireland, Israel, Italy (also Sardinia and Sicily), Japan (Hokkaido, Honshu), Jordan, Kazakhstan, Kirghizia, Korean Peninsula, Latvia, Madeira Archipelago, Moldavia, Mongolia, Morocco, Netherlands, Poland, Romania, Russia (Kamhchatka, Kurille is., Sakhalin, Siberia), Slovakia, Spain, Sweden, Tunisia, Turkey (Anatolia), Ukraine, Uzbekistan, Yugoslavia, [Nearctic Region (Alaska)] (Nast, 1972; Kalkandelen, 1974; Lodos & Kalkandelen, 1985).

Distribution in Turkey: Adana (Abacılar, Seyhan), Adıyaman (Kızılca-pınar), Ağrı (Doğubeyazıt), Amasya (Akdağ, Taşova), Ankara (Çubuk, Elmadağ, Eymir, Hasanoğlu, Karagöl, Kayaş, Lalahan, Kızılcahamam, Mogan, Polatlı, Yukarı Kışla), Bolu, Çankırı, Diyarbakır, Erzurum, İçel (Alahan, Alata), İzmir, Karaman (İçeri Çumra), Konya (Çanklar, Ereğli, Kızılviran, Meram), Nevşehir (Avanos, Göreme, Nar, Ürgüp), Ordu, Samsun, Sinop, Tokat, Van (Dlabola, 1957; Kalkandelen, 1974; Lodos & Kalkandelen, 1985; Güçlü & Özbek, 1994; Zeybekoğlu, 1998).

Material examined: Güçlü 13.09.1997- 1♂, 2♀♀; Yukarı Ölçek 27.09.1997- 1♂, 2♀♀; Güllüce 25.10.1997- 1♂, 1♀.

6. *Hardya iranica* Zachvatkin, 1946

Hardya (Hardya) iranica Zachvatkin, 1946.

The ground colour is brownish black (Fig. 1A). Aedeagus is in the shape of curve and gets narrower to the tip (Fig. 1D, E). The posterior edge of pygofer is serrated as shown in Figure 1B. Stylus is like as seen in Figure 1C and is big.

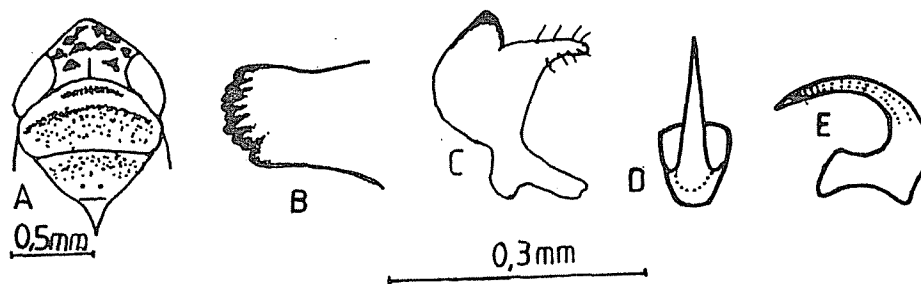


Fig. 1. *Hardya iranicola* Zachvatkin, 1946: A. ♂ Head and thorax, dorsal view; B. Pygofer; C. Stylus; D. Aedeagus, dorsal view; E. Aedeagus, lateral view.

General Distribution: Iran (Nast, 1972).

Distribution in Turkey: This species constitutes a new record for Turkey.

Material examined: Dize 27.05.1997- 1♂, 1♀; 07.10.1997 - 1♂; Depin 01.06.1997 - 2♂♂, 2♀♀.

7. *Stenometopielus angorensis* Zachvatkin, 1946

Stenometopielus tesquorum Emeljanov, 1964.

General Distribution: Kazakhstan, Turkey (Zachvatkin, 1946; Dlabola, 1957; Emeljanov, 1964; Nast, 1972; Kalkandelen, 1974).

Distribution in Turkey: Ağrı, Ankara (Beynam, Eymir, Karagöl, Lalahan, Polatlı, Yukarı Kışla), Bitlis (Reşadiye), Diyarbakır (Çüngüş), Erzincan (Demirpınar, Kemaliye), Erzurum (İspir), Hakkari (Beytülşebab, Yüksekova), Iğdır, Kars (Sankamış), Konya (Tuzgölü), Malatya, Nevşehir (Ürgüp), Urfa (Ceylanpınar, Siverek), Van (Başkale, Edremit, Kırkgeçit) (Lodos & Kalkandelen, 1987a).

Material examined: Dize 26.05.1997-1♂, 1♀; Güçlü 21.06.1997 - 1♂, 1♀.

8. *Cicadula flori* (J. Sahlberg, 1871)

Limotettix flori J. Sahlberg, 1871; *Cicadula flori danensis* Linnavuori, 1962.

The ground colour yellowish brown; the spotting on the vertex black; the wings transparent and veins visible. Aedeagus dorsoventrally flattened, narrower towards apex and forms a semi-circle spring (Fig. 2 A). A pair of extension exists at the tip and on the laterals of the tip (Fig. 2 D, E). Pygophere bears a big spine in the middle of the dorsal side and a small one at the tip (Fig. 2 B). Stylus is given in Figure 2 C. The genital structure confirms the definitions in Ossianilsson (1983).

General Distribution: Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Israel, Kazakhstan, Latvia, Mongolia, Norway, Poland, Russia (Maritime Territory, Siberia), Slovakia, Sweden, Switzerland, Ukraine (Nast, 1972).

Distribution in Turkey: This species is a new record for Turkey.

Material examined: Güllüce 25.10.1997- 2♂♂; Dize 07.10.1997- 1♂, 2♀♀.

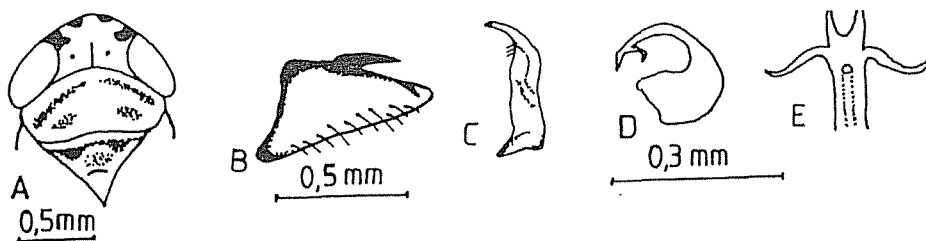


Fig. 2. *Cicadula flori* (J. Sahlberg, 1871): A. ♂ Head and thorax, dorsal view; B. Pygofer; C. Style; D. Aedeagus, lateral view; E. Aedeagus of apex, dorsal view.

9. *Arocephalus longiceps* (Kirschbaum, 1868)

Jassus (Deltocephalus) longiceps Kirschbaum, 1868; *Jassus (Deltocephalus) longivalvis* Kirschbaum, 1868; *Deltocephalus linnei* Fieber, 1869.

General Distribution: Austria, Belgium, Bulgaria, Czech Republic, Denmark, France, Georgia, Germany, Greece (Crete), Hungary, Italy, Moldavia, Mongolia, Netherlands, Poland, Romania, Russia, Slovakia, Spain, Switzerland, Turkey (Nast 1972, Lodos & Kalkandelen 1987b).

Distribution in Turkey: Amasya, Ankara (Çubuk, Elmadağ, Karagöl), Bolu (Kıbrısık, Seben), Erzincan, Erzurum, İzmir (Bozdağ), Konya (Ereğli), Nevşehir (Göreme), Samsun, Sinop (Kalkandelen, 1974; Lodos & Kalkandelen, 1987b; Güçlü & Özbek, 1995; Zeybekoğlu, 1998).

Material examined: Yeni 08.06.1997 - 1♂, 3♀♀; Depin 01.06.1997 - 3♂♂, 4♀♀.

10. *Psammotettix alienus* (Dahlbom, 1850)

Thamnotettix aliena Dahlbom, 1850; *Jassus (Deltocephalus) breviceps* Kirschbaum, 1868; *Deltocephalus flavidus* Fieber, 1869; *Deltocephalus karafutonis* Matsumura, 1914; *Psammotettix striatus* Razvyazkina & Pridantzeva, 1968.

General Distribution: Afghanistan, Albania, Algeria, Austria, Azerbaijan, Belgium, Bulgaria, Canary Is., Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Hungary, Iran, Italy (also Sicily), Kirghizia, Libya, Madeira Archipelago, Moldavia, Mongolia, Norway, Poland, Portugal, Romania, Russia (Altai Mts, Maritime Territory, Sakhalin, m. and w. Siberia), Slovakia, Spain, Sweden, Turkey, Ukraine, Uzbekistan, Yugoslavia, [Nearctic region] (Nast, 1972; Lodos & Kalkandelen, 1987b).

Distribution in Turkey: Adana (Pozantı), Amasya (Centrum, Merzifon and Taşova), Ankara (Centrum, Çubuk, Elmadağ, Eymir, Karagöl, Lalahan, Kızılcahamam, Mogan, Polatlı), Balıkesir (Balya), Bolu, Bursa (Gemlik), Çorum (Sungurlu), Diyarbakır, Erzincan (Çağlayan, Dumanlı, Refahiye), Erzurum (Tahir), Hakkari, Iğdır, İzmit (Sapanca), Kastamonu (Tosya), Konya (Akşehir), Malatya (Balaban, Darende, Karahan, Topal Uşağı), Mardin (İdil), Muş (Solhan), Nevşehir

(Göreme, Ürgüp), Osmaniye (Kandilli), Sakarya (Adapazarı, Hendek), Samsun (Bafra, Kurupelit), Siirt (Kurtalan), Sinop (Boyabat, Durağan), Uşak (Bölme), Van (Başkale, Edremit, Ercis, Güldendere), Yozgat (Boğazlıyan, Sorgun) (Dlabola, 1971; Lodos & Kalkandelen, 1987b; Zeybekoğlu, 1998).

Material examined: Dize 27.05.1997 - 3♂♂; 20.06.1997- 3♂♂, 1♀; 07.10.1997- 3♂♂, 1♀; Yeni 26.05.1997 - 1♂; 08.06.1997- 4♂♂, 1♀; Depin 16.01.1997- 8♂♂, 6♀♀; Kıran 01.06.1997- 9♂♂, 3♀♀; Güllüce 07.06.1997 2♂♂, 5♀♀; Güngör 15.06.1997- 1♂, 1♀; Güçlü 13.09.1997 2♂♂, 3♀♀; 21.06.1997 - 4♂♂, 3♀♀; Yukarı Ölçek 27.09.1997 5♂♂, 12♀♀.

11. *Psammotettix confinis* (Dahlbom, 1850)

Deltocephalus confinis Dahlbom; 1850; *Jassus (Deltocephalus) eurylobus*, Kirschbaum, 1868; *Deltocephalus heydeni* Fieber, 1872; *Deltocephalus thenii* Edwards, 1915; *Deltocephalus spathifer* Ribaut, 1925.

General Distribution: Albania, Austria, Bulgaria, Corsica, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain (England, Scotland, Wales), Greece (Crete), Hungary, Ireland, Italy (also Sardinia and Sicily), Kazakhstan, Kirghizia, Latvia, Moldavia, Mongolia, Netherlands, Norway, Poland, Romania, Russia (Also Altay Mts.) Slovakia, Sweden, Switzerland, Turkey (European Turkey and Anatolia), Ukraine, Uzbekistan, Yugoslavia, [Nearctic Region] (Nast, 1972; Dlabola, 1977; Lodos & Kalkandelen, 1987b).

Distribution in Turkey: Adana (Gavurdağı, Seyhan), Ankara (Beynam, Çubuk, Elmadağ, Eymir, Hasanoğlan, Karagöl, Kayaş, Mogan), Ağrı (Patnos, Tutak), Balıkesir (Susurluk), Bitlis (Tatvan), Edirne, Erzincan (Altintepe, Çağlayan, Kovalık, Iliç, Refahiye, Üzümlü), Erzurum (İspir, Serçeme, Tufanç), Giresun (Şebinkarahisar), Iğdır, Isparta (Kayık Köyü), Kars, Konya (Beyşehir), Ordu (Kumru), Siirt (Baykan), Sivas (Suşehri), Samsun (Bafra, Kurupelit), Van (Gevaş) (Dlabola, 1957, 1971; Kalkandelen, 1974; Lodos & Kalkandelen, 1987b; Güçlü & Özbek, 1995; Zeybekoğlu, 1998).

Material examined: Güçlü 21.06.1997- 6♂♂ ; 13.09.1997 - 14♂♂, 8♀♀; Dize 20.06.1997 - 6♂♂, 1♀.

12. *Psammotettix pictipennis* (Kirschbaum, 1868)

Jassus (Deltocephalus) pictipennis Kirschbaum, 1868; *Deltocephalus fasciatus* Fieber, 1869.

General Distribution: Afghanistan, Armenia, Austria, Azerbaijan, Bulgaria, Georgia, Hungary, Israel, Iran, Romania, Spain, Turkey (Anatolia), Kazakhstan, Moldavia, Russia (South), Slovakia, Ukraine, Uzbekistan (Dlabola, 1971, 1981; Lodos & Kalkandelen, 1987b; Nast, 1972).

Distribution in Turkey: Adana (Karataş), Aksaray, Ankara (Çubuk, Delice, Elmadağ, Karagöl, Kazan, Mogan, Tuz Gölü), Bartın, Bolu (Kıbrısık, Seben), Düzce, Çorum (Sungurlu), Çankırı (İlgaz, Yerkeyu), Erzincan (Altintepe,

Demirpınar), Erzurum, Iğdır, Kahramanmaraş (Türkoğlu), Karaman, Kars, Kayseri (Erciyes), Malatya (Balaban), Niğde (Ulukışla), Urfa (Ceylanpınar), Van (Centrum, Başkale) (Kalkandelen, 1974; Lodos & Kalkandelen, 1987b; Güçlü & Özbek, 1995).

Material examined: Güllüce 07.06.1997- 3♂♂, 4♀♀; Yeni 08.06.1997- 1♂; Güngör 15.06.1997 - 2♂♂; Dize 20.06.1997 - 2♂♂, 2♀♀; Güçlü 21.06.1997- 1♂; 13.09.1997- 6♂♂, 7♀♀.

Özet

Yüksekova (Hakkari) Deltocephalinae (Homoptera: Auchenorrhyncha: Cicadellidae) faunası üzerine bir araştırma

Bu çalışmada, Yüksekova (Hakkari) çevresinde Deltocephalinae faunasına ait 12 türün yayılış gösterdiği ve bunlardan *Cicadula flori* (J.Sahlberg, 1871) ile *Hardya iranicola* Zachvatkin, 1946 taksonlarının Türkiye faunası için yeni kayıt olduğu tespit edilmiştir. Her türün Türkiye'deki ve Palaeartik bölgedeki yayılış alanları verilmiştir. Yeni kayıt olarak bildirilen türlere ait örneklerin, taksonomik yönden önem arz eden baş ve genital yapılarının şekilleri çizilmiştir.

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A faunistic study on Deltocephalinae (Homoptera: Auchenorrhyncha: Cicadellidae) in Yüksekova (Hakkari)

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Summary

In this study, 12 species belonging to the subfamily Deltocephalinae were determined in Yüksekova. Among these species, *Cicadula flori* (J. Sahlberg, 1871) and *Hardya iranicola* Zachvatkin, 1946 were found to be new records for the fauna of Turkey. The figures of head and genital organs of these two newly recorded species were drawn.

Key words: Deltocephalinae, Cicadellidae, fauna, new records, distribution

Anahtar sözcükler: Deltocephalinae, Cicadellidae, fauna, yeni kayıtlar, dağılım

Introduction

Apart from that of Lodos and Kalkandelen (1985, 1986, 1987 a,b), there has been no literature so far on the distribution of species belonging to Deltocephalinae (Homoptera: Cicadellidae) subfamily around Yüksekova. Moreover, the status of the genital organs of newly recorded species distributed in this area are unknown. Therefore, this study was carried out in order to determine the species belonging to the subfamily Deltocephalinae, and head and genital organs of the species recorded first time for Turkey were described by figures.

Material and Method

Totally 275 specimens were collected by sweeping of plants in Yüksekova (Hakkari) in 1997 between May and October and prepared in accordance with the standard methods.

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