

**Preliminary list of Auchenorrhyncha with notes on distribution and  
importance of species in Turkey. XX. Family Cicadellidae : Deltocephalinae :  
Fieberiellini, Stirellini and Tetartostylini**

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**Summary**

Turkish fauna of these tribes is represented by 16 species belonging to seven genera. *Fieberiella gemelina* Dlabola, *Phlogotettix cyclops* (M.R.) and *Docotettix cornotus* Ribaut are newly added to the fauna by this study. Distribution, abundance and plants which the specimens were collected on of each species are given.

**Introduction :**

Thirteen species of this faunistic list have been recorded by different workers such as; Oshanin (1912), Fahringer (1922), Dlabola (1957, 1971 a, 1981, 1985), Linnavuori (1965), Nast (1972) and Kalkandelen (1974). From these listed species only *Fieberiella florii* (Stal) seems to be economically important. Because it is a vector of Western and Eastern X-disease of peach and Garonne districts in France (Bernhart et al., 1977). It has been reared. It was also detected as one of the vectors of «Molières decline» disease of *Prunus* spp. caused by a mycoplasma especially on cherry and plum in Torn and Garonne districts in France (Bernhart et al., 1977). It has been reared in the laboratory on *Ligustrum* and *Coriaria* of which oviposition wounds

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results in the weakening and causing also small and yellow leaves that growing in a rosette shaped of twigs. Even though the diseases are not detected in Turkey yet it is important, because since it is found in Turkey, its nature makes it a threat that requires careful watching.

Synonyms, distribution of species in Palearctic Region are taken from Nast (1972). Additional countries were given with literature citations.

**FIEBERIELLINI** Wagner, 1951

*Fieberiella flori* (Stal, 1864)

General Distribution : Albania, Austria, Bulgaria, Cyprus, Czechoslovakia, France, Germany, Greece, Hungary, Iran, Iraq, Italy (also Sicily), Netharlands, Poland, Romania, Turkey, USSR, Yugoslavia; (Nearctic Region).

Distribution in Turkey : Fahringer (1922) recorded it from Kocaeli (Gebze) on *Chrysanthemum argenteum*. Diabola (1957) reported it from Ankara (Çubuk Baraj) and Kocaeli (Mollafeneri).

The authors have no certainly identified specimens of this species yet.

*Fieberiella gemelina* Diabola, 1965

General Distribution : Iraq.

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

Material examined : İzmir (Menemen)-Only one female specimen.

Occurrence : Very occasional.

Biological note : This specimen was collected in mid-June of 1979, on a grapevine.

*Fieberiella lindbergi* Wagner, 1963

General Distribution : Cyprus, Turkey.

Distribution in Turkey : Linnavuori (1965) reported it from Adana (Pozantı).

The authors have no representative specimens of this species.

*Fieberiella macchiae* Linnavuori, 1962

General Distribution : Bulgaria, China (Manchuria), Czechoslovakia, Germany, Israel, Poland, Romania, Turkey, USSR.

Distribution in Turkey : Diabola (1971 a) reported it from Denizli.

Material examined : Adana (Hasanbeyli), Antalya (Central province, Gündoğmuş, Korkuteli), Kütahya (Tavşanlı), Muğla (Milas), Nevşehir (Ürgüp), Zonguldak (Karabük)-Totally 13 specimens.

Occurrence : Occasionally.

Biological note : Specimens were collected from late-May to late-September, on apple (*Pyrus malus*), *Quercus*, *Cupressus*, *Arbutus* and *Galium*. Linnavuori (l. c.) reported it on dense maqui formations such as; *Crataegus*, *Laurus nobilis* and *Quercus calliprinos*.

#### *Fieberiella oenderi* Dlabola, 1985

General Distribution : Endemic.

Distribution in Turkey : Dlabola (l. c.) described it from the specimens collected in Antalya.

Material examined : Isparta (Eğridir-Taşköy)-Only one male specimen.

Occurrence : Very occasionally.

Biological note : The specimen was collected at 11 th June, 1973 on *Pinus*.

#### *Fieberiella pallida* Melichar, 1896

General Distribution : Endemic.

Distribution in Turkey : The authors have not seen the original description, so can not give the detailed distribution data of the species in Turkey. Oshanin (1912) and Metcalf (1967) listed it in their works.

The authors have no representative material of this species.

#### *Fieberiella septentrionalis* Wagner, 1963

General Distribution : Nast (1972) reported it as the synonymy of *F. macchiae* Linn. After close study of the genus, this species accepted as proper species, not the synonym of *F. macchiae* Linn.. Its distribution is outlined as euro-sibirian element by Dlabola (1985). The previous distribution of this species could be given as : Bulgaria, China (Manchuria), Czechoslovakia, Germany, Poland, Romania, USSR. Later on Iran and Turkey added by Dlabola (1981).

Distribution in Turkey : Dlabola (l. c.) reported it from Kütahya.

Material examined : Antalya (Korkuteli), Artvin (Seyitler), Bursa, Malatya, Sakarya (Adapazarı, Karasu, Sarıgazi)-Totally 14 specimens.

Occurrence : Occasionally.

Biological note : Specimens were collected from late April to late September, on *Coryls avellana*, *Rubus fruticosus*, *Prunus domestica*, *P. persica*, *Pirus communis*, *Cupressus*.

*Synphoropsis lauri* (Horvath, 1897)

Synonymy : *Synphoropsis wagneri* Haupt, 1926.

General Distribution : Greece, Israel, Italy, Jordan, Turkey, USSR, Lebanon, Crete, Cyprus, Hungary, Yugoslavia (Dlabola 1971 a, 1974, 1977); France (Guistina, 1983).

Distribution in Turkey : Linnavuori (1965) collected some specimens in Hatay (İskenderun and Yayladağ-Belen). Dlabola (1971 a, 1981) reported it from İstanbul (Yalova) and İçel (Erdemli).

Material examined : Ankara (Central province), İstanbul (Kartal, Cevizli), Rize, Samsun (Bafra), Sinop (Aklıman, Trabzon (Akçaabat, Central province)-Totally 38 specimens.

Occurrence : Somewhat common but found in small numbers.

Biological note : Specimens were collected starting from mid-July to mid-October, on *Ligustrum*, *Rhododendron* and *Hedera helix*. Linnavuori (l. c.) and Dlabola (1971 b, 1981) reported it on *Olea europea* and machia-vegetation.

*Phlogotettix cyclops* (Mulsant et Rey, 1855)

General Distribution : China (Manchuria), Czechoslovakia, France, Hungary, Israel, Italy, Japan, Korean Peninsula, Romania, USSR, Yugoslavia. Crete, Iran (Dlabola 1977, 1981).

Distribution in Turkey : This is the first record of this species in Turkey.

Material examined : Kocaeli (Karamürsel), Sakarya (Adapazarı), Samsun (Bafra-Alaçam), İzmir (Tire)-Totally 7 specimens.

Occurrence : Occasionally.

Biological note : Specimens were collected from early July to late August, on *Castanea*, *Rhododendron* and light traps.

*Docotettix cornutus* Ribaut, 1948

General Distribution : Cyprus.

Distribution in Turkey : This is the first record of the species in Turkey.

Material examined : Antalya (Termosus, Varsak), Aydın (Çine, Kuşadası), İzmir (Bayındır, Narlıdere, Pamucak) - Totally 19 specimens. It seems to be restricted in Aegean and Mediterranean Regions in Turkey.

Occurrence : Occasionally.

Biological note : Specimens were collected from late May to late September, on *Olea europæa*, *Ligustrum*.

STIRELLINI Emelyanov, 1966

*Doratulina acuticeps* (Ribaut, 1948)

General Distribution : Cyprus, Israel, Turkey. Iran, s. Yugoslavia (Dlabola, 1981).

Distribution in Turkey : Linnavuori (1965) reported one specimen from Hatay (İskenderun).

The authors have no representative material of this species.

*Doratulina instabilis* (Ribaut, 1948)

General Distribution : Afghanistan, Cyprus, Egypt, Greece (Corfu), Israel, Italy, Libya; (Ethiopian Region). Turkey (Linnavuori, l. c.).

Distribution in Turkey : Linnavuori (l. c.) reported one specimen from Hatay (Yayladağ - Belen).

Material examined : Ankara (Çubuk Baraj II), Konya (Ereğli), Siirt (Şirvan) - Totally 11 specimens.

Occurrence : Occasionally.

Biological note : Specimens were collected in August on steppe vegetation.

*Doratulina pallifrons* (Horvath, 1897)

Synonymy : *Aconura margaritacea* Horv., 1897.

General Distribution : Cyprus, Hungary, Iraq, Jordan, Romania, Yugoslavia. Turkey (Dlabola, 1981).

Distribution in Turkey : Dlabola (l. c.) reported it from İçel (Erdemli) on subtropical grass.

The authors have no representative material of this species.

*Exitianus capicola* (Stal, 1855)

Synonymy : *Bythoscopus africanus* Walker, 1851 (Nomen oblitum), *Jassus* (*Thamnotettix*) *taeniaticeps* Kbm., 1868; *Euscelis ragusae* Haupt 1924; *Limotettix albipennis* Haupt, 1927.

General Distribution : Albania, Algeria, Canary Is., Cyprus, Egypt, France, Greece, Hungary, Iran, Iraq, Israel, Italy (also Sardinia and Sicily), Jordan, Madeira Archipelago, Morocco, Portugal, Spain, USSR (Tadzikistan); (Ethiopian Region). Crete and Turkey (Dlabola 1977, 1981), Tunisia (Linnavuori, l. c.)

Distribution in Turkey : Dlabola (l. c.) reported it from Adana (Kozan, Ağapınarı, Gavurdağı and Karataş) and İçel (Erdemli).

Material examined : Adana (Central province, Ceyhan, Misis, Pozantı), Antalya (Aksu, Gülloluk), İçel (Tarsus), İzmir (Narlıdere, Ödemiş-Bozdağ), Muğla (Dalaman) - Totally 47 specimens. It seems to be distributed in the Mediterranean and Aegean Regions in Turkey.

Occurrence : Somewhat common and sometimes found in small numbers.

Biological note : Specimens were collected from July to early November, on *Citrus*, corn and grass.

*Exitianus fasciolatus* (Melichar, 1911)

Synonymy : *Athysanus vulnerans* Bergevin, 1925; *Limotettix unifasciatus* Haupt, 1930.

General Distribution : Afghanistan, Algeria, Canary Is., Egypt, Iran, Italy, Jordan, Libya, Madeira Archipelago, Tunisia, Turkey, USSR (Turkistan, Uzbekistan); (Ethiopian Region). Israel (Linnavuori 1962).

Distribution in Turkey : Dlabola (1957, 1971 b) reported it from Adana (Kozan) and Gaziantep (Fevzipaşa).

Material examined : Bitlis (Hizan), Diyarbakır (Central province, Silvan), Gaziantep (Nurgana), İzmir (Çeşme), Konya (Karaman) Maraş (Andırın), Mardin (Cizre), Nevşehir (Avanos), Niğde, Sakarya (Hendek), Urfa (Ceylanpınar, Harran) - Totally 29 specimen.

Occurrence : Somewhat common and found very small numbers.

Biological note : Specimens were collected from mid-May to mid-October, but mostly in July, from light traps.

TETARTOSTYLINI Wagner, 1951

*Tetartortylus pellucidus* Wagner, 1951

General Distribution : Albania, Austria, Czechoslovakia, Hungary, Italy, Romania, USSR (s. Russia), Yugoslavia. Turkey (Kalkandelen, 1974).

Distribution in Turkey : Kalkandelen (l. c.) reported it from Ankara (Çubuk Baraj II).

Material examined : From Edirne and İstanbul (Kartal - Cevizli) in addition to above mentioned material - Totally 11 specimens.

Occurrence : Occasionally.

Biological note : Specimens were collected in June on *Juncus* and from light traps.

## Özet

Türkiye Auchenorrhyncha türlerinin yayılışı ve önemlerine ait ön listesi. XX. Familya Cicadellidae : Deltocephalinae : Fieberiellini, Stirellini ve Tetrastylini

Bu tribu'ların Türkiye faunası yedi cinse bağlı 16 tür ile temsil edilmektedir. *Fieberiella gemelina* Dlabola, *Phlogotettix cyclops* (M. R.) ve *Docotettix cornutus* Ribaut türleri Türkiye için yeni kayıtlardır. Her bir türün yayılışı ve üzerinde bulunduğu bitkiler verilmeye çalışılmıştır.

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