

Notes on Tabanidae (Diptera) fauna of Turkey

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Summary

In this study, the material of the family Tabanidae (Diptera) was collected from different localities of Turkey in 1957-1990 and it has been determined that totally 36 species belonging to this family occurring in the collection of LEMT (Lodos Entomological Museum, Turkey). Some new localities were found for some species previously known in Turkey. Among them, *Tabanus lunatus* Fabricius, 1794 and *T. bifarius* Loew, 1858 were widespread species.

Key words: Diptera, Tabanidae, fauna, Turkey

Anahtar sözcükler: Diptera, Tabanidae, fauna, Türkiye

Introduction

The Tabanidae fauna of Turkey is quite rich and the studies of Austen (1925), Mimioğlu & Sayın (1963), Leclercq (1966; 1967a; 1967b), Olsufjev et al. (1967), Olsufjev (1971), Schacht (1983; 1984; 1985; 1987), Parvu & Giray (1984), Timmer (1984), Yücel (1987), Erdoğan (1992), Hayat & Özbek (1992), Kılıç (1992; 1996a; 1996b; 1996c; 1999; 2001a; 2001b; 2001c; 2003; 2004), Kılıç & Schacht (1995), Yağcı (1997), Hayat & Schacht (2000), Kılıç & Öztürk (2002), Gören (2003), Büber (2004) have great importance. In those studies a total of 164 species and 13 subspecies belonging to Tabanidae were recorded up to now from Turkey.

In this study, Tabanids have been collected from different parts of Turkey and preserved in the collection of LEMT (Lodos Entomological Museum, Turkey) of Department of Plant Protection, Faculty of Agriculture, Aegean University, Bornova, Izmir, Turkey have been evaluated. The aim of this paper is to present the complete records of preserved material to researchers and relevant people.

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Material and Methods

Material have been collected by aerial collector, light traps and sweeping of vegetation from different parts of Turkey mainly by field studies of the projects (TUBITAK-TOAG/168, 336, 502). In addition to these, material collected and donated to the museum have also been included.

The subfamilies and genera were given in phylogenetic order and species were listed alphabetically within each subfamily. Material have been determined by A. Y. Kılıç.

Results

In this study, 36 species of 11 genera belonging to the subfamilies Pangoninae, Chrysopsinae and Tabaninae were reported.

Pangoninae: Pangoniini

Pangonius Latreille, 1802

Pangonius (s. str.) *fulvipes* (Loew, 1859)

Material examined: İzmir: Bornova, 11.V.1975, weed, (1). Totally 1 specimen.

Pangonius (s. str.) *pyritosus* (Loew, 1859)

Material examined: İzmir: Bornova, 26.V.1975, weed, (1). Totally 1 specimen.

Chrysopsinae: Chrysopsini

Silvius Meigen, 1820

Silvius (s. str.) *alpinus* (Scopoli, 1763)

Material examined: Mersin: Gözne, 31.V.1984, on the ground, (1). Totally 1 specimen.

Nemorius Rondani, 1856

Nemorius oenderi Jezek, 1990

Material examined: İzmir: Menemen, 20.V.1969, weed, (1); **Mersin:** Erdemli, 6.VII.1986, (1). Totally 2 specimens.

Chrysops Meigen, 1803

Chrysops (s. str.) *flavipes* Meigen, 1804

Material examined: Muğla: Bodrum, 28.VI.1972, (1). Totally 1 specimen.

Tabaninae: Tabanini

Atylotus Osten & Sacken, 1876

Atylotus fulvus (Meigen, 1820)

Material examined: Manisa: Central province, 1.VI.1972, **Pistacia terebinthus**, (1). Totally 1 specimen.

Theriopectes Zeller, 1842

Theriopectes tricolor Zeller, 1842

Material examined: İzmir: Bornova, 12.V.1980, weed, (1). Totally 1 specimen.

Hybomitra Enderlein, 1922

Hybomitra ciureai (Séguy, 1937)

Material examined: Hakkari: Şemdinli, 12.VIII.1975, (1); **Kütahya:** 18.VI.1972, **Triticum** sp., (1). Totally 2 specimens.

Tabanus Linnaeus, 1758

Tabanus autumnalis Linnaeus, 1761

Material examined: Afyonkarahisar: Sandıklı, 13.VI.1972, **Prunus cerasus** (2); **Balıkesir:** Dursunbey, 18.V.1971, **Quercus** sp., (1); **İzmir:** Bornova, 20.V.1978, weed, (1); 17.VII.1979, (1); 20.V.1984, on the stone, (1); Mor-doğan, 8.VIII.1983, light trap, (1). Totally 7 specimens.

Tabanus bifarius Loew, 1858

Material examined: Eskişehir: Sarıcakaya-Dağküplü, 06.VI.1990, (1); **İzmir:** Bornova, 15.VII.1957, on cows, (1); 20.VII.1958, on cows, (1); 17.V.1978, weed, (1); Dikili, 24.V.1973, sweeping net, (1); Kemalpaşa-Ören, 21.VII.1982, (1); **Manisa:** (Central province), 01.VI.1972, **Rosa** sp., (1); **Mersin:** Erdemli, 6.VII.1986, aerial collector, (3); **Şanlıurfa:** Siverek-Güverti, 15.VI.1972, **Prunus armeniaca**, (1). Totally 11 specimens.

Tabanus bovinus Linnaeus, 1758

Material examined: Afyonkarahisar: Central province, 18.VIII.1984, weed, (1). Totally 1 specimen.

Tabanus bromius Linnaeus, 1758

Material examined: Eskişehir: Sarıcakaya-Dağküplü, 04.VIII.1990, (1); **Kırklareli:** İğneada, 1.VII.1972, weed, (1); **Mersin:** Mut-Silifke, 5.VII.1986, aerial collector, (1). Totally 3 specimens.

Tabanus cordiger Meigen, 1820

Material examined: Mersin: Erdemli, 6.VII.1986, aerial collector, (1).
Totally 1 specimen.

Tabanus eggeri Schiner, 1868

Material examined: Çanakkale: Central province, 23.VIII.1983, flowers, (1); **İzmir:** Bornova, 5.V.1981, weed, (1). Totally 2 specimens.

Tabanus exclusus Pandellé, 1883

Material examined: Eskişehir: Tandır, 03.VIII.1989, (1); 04.VIII.1989, (1); **Mersin:** Mut-Silifke, 27.V.1984, aerial collector, (2); 4.V.1986, aerial collector, (1). Totally 5 specimens.

Tabanus glaucopsis Meigen, 1820

Material examined: Eskişehir: Kalabak, 21.VII.1990, (1); **İzmir:** Kiraz, 7.VIII.1983, weed, (1); **Manisa:** Sarıgöl, 27.VIII.1983, weed, (1); **Mersin:** Mut-Silifke, 5.VII.1986, aerial collector, (1). Totally 4 specimens.

Tabanus leleani Austen, 1920

Material examined: Adıyaman: Gerger, 7.VI.1976, ***Vicia ervilla***, (1); **İzmir:** Urla, 29.VI.1979, (1); **Kayseri:** Himmetdede, 8.VIII.1979, light trap, (1).
Totally 3 specimens.

Tabanus lunatus Fabricius, 1794

Material examined: Hakkari: Şemdinli, 03.VI.1973, weed, (1); **İzmir:** Bornova, 15.V.1975, weed, (1); **Manisa:** Central province, 1.VI.1972, ***Pistacia vera***, (3); 1.VI.1972, ***Pistacia terebinthus***, (4); **Mersin:** Anamur, 23.V.1984, ***Tamarix*** sp., (1); Mut-Silifke, 27.V.1984, aerial collector, (2); 4.VII.1986, aerial collector, (1). Totally 13 specimens.

Tabanus obsolescens Pandellé, 1883

Material examined: Eskişehir: Kalabak, 21.VIII.1989, (1). Totally 1 specimen.

Tabanus portschinskii Olsufjev, 1937

Material examined: Eskişehir: Tandır, 27.VII.1989, (1). Totally 1 specimen.

Tabanus quatuornotatus Meigen, 1820

Material examined: **Çanakkale:** Lapseki, 21.V.1973, ***Mentha*** sp., (1); **Eskişehir:** Seyitgazi –Şükranlı, 09.VII.1989, (1). Totally 2 specimens.

Tabanus regularis Jaennicke, 1866

Material examined: **Eskişehir:** Sarıcakaya-Dağküplü, 04.VIII.1990, (1). Totally 1 specimen.

Tabanus rupium (Brauer in Brauer & Bergenstamm, 1880)

Material examined: **İzmir:** Bornova, 12.V.1984, weed, (1). Totally 1 specimen.

Tabanus spectabilis Loew, 1858

Material examined: **İzmir:** Bornova, 18.V.1975, (1); 16.IV.1984, on the stone, (1). Totally 2 specimens.

Tabanus sudeticus Zeller, 1842

Material examined: **İzmir:** Bornova, 28.VII.1986, (1). Totally 1 specimen.

Tabanus tinctus Walker, 1850

Material examined: **Yalova:** Central province, 4.VIII.1981, (1). Totally 1 specimen.

Tabanus unifasciatus Loew, 1858

Material examined: **Balıkesir:** Bandırma, 20.V.1973, weed, (1); **Eskişehir:** Central province, 17.VI.1989, (1); **Hakkari:** Şemdinli, 12.VI.1975, (2). Totally 4 specimens.

Haematopotini

Haematopota Meigen, 1803

Haematopota bigoti Gobert, 1881

Material examined: **İzmir:** Dikili, 24.V.1973, sweeping net, (2). Totally 2 specimens.

Haematopota crassicornis Wahlberg, 1848

Material examined: **Eskişehir:** Seyitgazi–Şükranlı, 09.VII.1989, (1). Totally 1 specimen.

Haematopota grandis Macquart, 1834

Material examined: **Çanakkale:** Umurbey, 16.IX.1969, **Sesamum indicum**, (1); **İzmir:** Dikili, 24.V.1973, sweeping net, (1). Totally 2 specimens.

Haematopota pallens Loew, 1870

Material examined: **Eskişehir:** Central province, 14.VII.1990, (1). Totally 1 specimen.

Haematopota pluvialis (Linnaeus, 1761)

Material examined: **Eskişehir:** Beylikova, 08.VII.1989, (1). Totally 1 specimen.

Diachlorini

Dasyrhamphis Enderlein, 1922

Dasyrhamphis carbonarius (Meigen, 1820)

Material examined: **Manisa:** Sultanyayla, 2.VI.1972, (1). Totally 1 specimen.

Dasyrhamphis umbrinus (Meigen, 1820)

Material examined: **Afyonkarahisar:** Emirdağ, 17.VI.1972, **Prunus domestica**, (1); **Balıkesir:** Bandırma, 20.V.1973, weed, (1); **Çanakkale:** Ezine, 22.V.1973, **Matricaria** sp., (1); Lapseki, 21.V.1973, aerial collector, (1); 21.V.1973, **Mentha** sp., (1); **Eskişehir:** Sarıcakaya-Dağküplü, 06.VI.1990, (1); **Uşak:** Central province, 10.VI.1972, **Medicago sativa**, (1). Totally 7 specimens.

Philipomyia Olsufjev, 1964

Philipomyia aprica (Meigen, 1820)

Material examined: **Eskişehir:** Tandır, 23.VII.1989, (2); **Mersin:** Erdemli, 6.VII.1986, aerial collector, (1). Totally 3 specimens.

Philipomyia graeca (Fabricius, 1794)

Material examined: **İzmir:** Torbalı, 12.IV.1984, weed, (1). Totally 1 specimen.

As a result of this study, it has been determined that totally 36 species belonging to Tabanidae have been preserved in the collection of LEMT. Among those, locality records of ***P. fulvipes***, ***T. eggeri***, ***T. spectabilis***, ***T. sudeticus***, ***H. grandis*** from İzmir, ***N. oenderi*** from Mersin, ***T. bifarius*** from Manisa and Şanlıurfa, ***D. carbonarius*** from Manisa, ***H. ciureai*** from Kütahya, ***T. bovinus*** from Afyonkarahisar, ***T. leleani*** from Adıyaman, ***T. tinctus*** from Yalova, and ***D.***

umbrinus from Uşak have been reported for the first time in this study. Material preserved in LEMT constitute 20.34% of Turkish known species. It is expected that the number of known species and rate of preserved material of tabanids will increase in further studies. Among the preserved material **T. lunatus** and **T. bifarius** were the widespread species.

Özet

Türkiye Tabanidae (Diptera) faunası üzerine notlar

Bu çalışmada, Türkiye'nin farklı yörelerinden 1957-1990 yılları arasında toplanan ve LEMT (Lodos Entomoloji Müzesi, İzmir) koleksiyonunda korunan Tabanidae (Diptera) familyasına ait örnekler değerlendirilmiş ve 36 tür belirlenmiştir. Bu çalışmayla daha önce Türkiye'de varlığı bilinen bu türlerden bazıları için yeni lokaliteler bildirilmiştir. Bu türlerden **Tabanus lunatus** Fabricius, 1794 ve **T. bifarius** Loew, 1858'un en yaygın türler olduğu anlaşılmıştır.

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