

Syrphidae (Diptera) fauna in Tokat provinces (Turkey)*

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Summary

28 species of Syrphidae, belonging to 16 genus, are listed and annotated the locations previously found in Turkey. Also it was added the distribution in the world. The Material examined is deposited in Plant Protection Department of the Gaziosmanpaşa University, Tokat, Turkey.

Key words: Syrphidae, Fauna, Diptera, Tokat, Turkey

Anahtar sözcükler: Syrphidae, Fauna, Diptera, Tokat, Türkiye

Introduction

The family Syrphidae, known as 'Flower flies or Hover flies' is distributed almost the whole world. Larvae of some genera of this family are predators on aphids. Larvae of other genera are phytophagous, saprophagous, carpophagous, and microphagous. Adults are found on flowers especially Umbelliferae species, also the adults of this family are one of the most important pollinators beside the bees (Sımcı & Glumac, 1987). The Syrphidae comprises about 5000 species in the world, 1600 species in the Palaearctic region. About 730 species have been mentioned from Mediterranean area (Weyer & Dils, 1999). Only limited knowledge is available especially on Syrphidae in Turkey (Özgür, 1982, 1986a, 1986b, 1987; Alaoğlu & Özbek, 1987; Hayat & Alaoğlu 1990a, 1990b; Pehlivan & Akbulut, 1990; Sarıbiyık & Aktaş, 1996, Hurkmans & Hayat 1997; Sarıbiyık & Hasbenli, 1997; Sarıbiyık 2001). Other works done on syrphids in Turkey are about the determination of the natural enemies of certain insect species.

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Materials and Methods

The Material studied were collected from different parts of Tokat in 2000 and 2001 by trap. The flies were killed, pinned and prepared for identification. Identifications were made by Dr. Rüstem HAYAT.

Results

Tribus: Syrphini

Episyrphus balteatus (De Geer, 1776)

Material examined: Zile (Karayün, 27.06.2000, 6 ♂; Kireçli, 19.06.2000, 1 ♂; Ede, 06.06.2000, 1 ♀; 28.06.2001, 1 ♀), Tokat (28.04.1999, 3 ♂; Çördük, 10.08.2000, 1 ♂, 1 ♀; 05.07.2001, 8 ♀; Söngüt, 14.08.2000, 3 ♀; 11.07.2001, 1 ♂, 13 ♀; Dökmetepe, 14.08.2000, 2 ♀; Akyamaç, 26.05.2000, 1 ♂; 05.06.2000, 3 ♂, 6 ♀; 30.05.2001, 1 ♀; 01.06.2001, 2 ♂, 1 ♀), Almus (Serince, 26.05.2000, 3 ♂, 1 ♀; 01.08.2001, 1 ♂, 1 ♀; Bakımlı, 07.06.2000, 1 ♂; 22.08.2001, 5 ♀; Gevrek, 14.08.2001, 1 ♀), Niksar (Şahinli, 27.06.2000, 1 ♂, 3 ♀; 22.07.2001, 1 ♀; Musapınarı, 27.06.2000, 5 ♂, 1 ♀; Çerköy, 27.06.2000, 1 ♂), Artova (Yağcımsa, 22.06.2001, 1 ♂), Turhal (Çaylı, 03.07.2000, 3 ♂; Çivril, 27.05.2001, 3 ♀; Kalaycık, 28.05.2001, 1 ♀), Pazar (Erkilet, 06.06.2000, 1 ♂, 3 ♀; Dereköy, 19.06.2000, 2 ♀), Reşadiye (10.08.2000, 1 ♂).

Distribution in Turkey: Ankara, Adana (Tuatay et al., 1972); İzmir (Soydanbay, 1976); Ankara (Düzgüneş et al., 1982); Çukurova (Zeren & Düzgüneş, 1984); Akdeniz Region (Özgür, 1986); Erzurum (Alaoğlu & Özbek, 1987); Kayseri, Kastamonu (Sarbiyık & Aktaş, 1996).

Distribution in the world: Europe, Asia, North Africa, Oriental Region and Australia (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Syrphus ribesii (Linnaeus, 1758)

Material examined: Tokat (28.04.1999, 1 ♂, 1 ♀).

Distribution in Turkey: İzmir (Soydanbay; 1976); Mersin (Özgür, 1986); Kastamonu (Sarbiyık & Aktaş, 1996).

Distribution in the world: Europe, USSR, Asia, Nearctic Region (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Metasyrphus corollae Fabricius, 1794

Material examined: Zile (Ede, 06.06.2000, 2 ♀), Tokat (20.04.1999, 1 ♂, 1 ♀; 02.08.1999, 3 ♂, 4 ♀; 20.07.1999, 1 ♂, 2 ♀; Dökmetepe, 14.08.2000, 1 ♂; Akyamaç, 05.06.2000, 1 ♀), Reşadiye (10.08.2000, 1 ♀), Artova (Aktaş, 04.06.1999, 1 ♀), Almus (Bakımlı, 07.06.2000, 1 ♂).

Distribution in Turkey: Ankara (Tuatay et al., 1972); İzmir (Soydanbay, 1976); Ankara (Düzgüneş et al., 1982); Çukurova (Zeren & Düzgüneş, 1984);

Akdeniz region (Özgür 1986); Erzurum (Alaoğlu & Özbek 1987); Erzurum (Hayat & Alaoğlu 1990a).

Distribution in the world: All parts of Europe, USSR, Asia, North Africa, Oriental Region (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Scaeva selenitica (Meigen, 1822)

Material examined: Tokat (20.03.1999, 2 ♂; 28.04.1999, 1 ♂).

Distribution in Turkey: Turkey (no locality) (Sack, 1932); Izmir (Gadeau De Kerville, 1939); Ankara (Düzgüneş et al., 1982); Izmir (Erkin, 1983).

Distribution in the world: Europe, USSR, Asia, Oriental Region (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Scaeva albomaculata (Macquart, 1842)

Material examined: Tokat (20.03.1999, 1 ♂).

Distribution in Turkey: Ankara (Düzgüneş et al., 1982); Çukurova (Zeren & Düzgüneş, 1983); Adana, Antakya (Özgür, 1986); Çukurova (Zeren, 1989); Erzurum (Hayat & Alaoğlu, 1990a); Kayseri, Kastamonu (Sarıbiyik & Aktaş, 1996).

Distribution in the world: Europe, Asia, USSR, North Africa (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Scaeva dignota (Rondani, 1857)

Material examined: Tokat (07.11.2001, 1 ♂), Niksar (Musapınarı, 16.07.2001, 1 ♂), Zile (Ede, 11.07.2001, 1 ♂).

Distribution in Turkey: Turkey (no locality) (Peck, 1988); Erzurum (Hayat & Alaoğlu, 1990a).

Distribution in the world: Europe, Asia, USSR, North Africa (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Scaeva pyrastris (Linnaeus, 1758)

Material examined: Tokat (Söngüt, 14.08.2000, 1 ♂, 2 ♀; 11.07.2001, 2 ♂, 4 ♀; Akyamaç, 05.06.2000, 2/3; 26.05.2000, 1 ♂; 30.05.2001, 3 ♀; Çördük, 05.07.2001, 1 ♂, 2 ♀; Dökmetepe, 14.08.2000, 1 ♂, 2 ♀; 01.06.2001, 2 ♂); Artova (Aktaş, 03.08.2000, 3 ♂, 4 ♀; Yağcımus, 03.08.2000, 1 ♀).

Distribution in Turkey: Ankara, Adana (Tuatay et al., 1972); Ankara (Düzgüneş et al., 1982); Çukurova (Zeren & Düzgüneş, 1984); Akdeniz region (Özgür, 1986); Erzurum (Alaoğlu & Özbek 1987).

Distribution in the world: Europe, Asia, USSR, North Africa, Nearctic Region (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Meliscaeva cinctella (Zetterstedt, 1843)

Material examined: Tokat (28.04.1999, 1 ♂).

Distribution in Turkey: Adana (Özgür, 1986).

Distribution in the world: All parts of Europe, USSR, Asia, Nearctic and Oriental Region (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Sphaerophoria scripta (Linnaeus, 1758)

Material examined: Turhal (Çivril, 27.05.2001, 2 ♂; 19.06.2001, 4 ♂, 2 ♀; Kalaycık, 14.08.2000, 2 ♂, 1 ♀; 28.05.2001, 1 ♂; Çaylı, 03.07.2000, 1 ♂; 08.08.2000, 3 ♀; 25.05.2001, 3 ♂, 2 ♀), Zile (Kireçli, 19.06.2000, 1 ♂, 5 ♀; 01.07.2001, 3 ♂; Karayün, 27.06.2000, 3 ♂, 1 ♀; 18.06.2001, 1 ♂, 1 ♀; Ede, 28.06.2001, 2 ♀), Tokat (Dökmektepe, 14.08.2000, 2 ♀; 01.06.2001, 4 ♂; 11.06.2001, 1 ♀; Akyamaç, 26.05.2000, 1 ♀; 30.05.2001, 5 ♀; Çördük, 10.08.2000, 2 ♂, 2 ♀; 05.07.2001, 9 ♀; Söngüt, 14.08.2000, 4 ♂, 6 ♀; 11.07.2001, 18 ♀), Artova (Aktaş, 03.08.2000, 19 ♀; 05.06.2000, 12 ♀; 20.06.2001, 2 ♂, 2 ♀; Kabatepe, 03.08.2000, 1 ♂; 14.06.2001, 1 ♂; Yağcımusa, 03.08.2000, 1 ♀), Almus (Bakımlı, 07.06.2000, 1 ♂, 5 ♀; 22.08.2001, 12 ♀; Serince, 26.05.2000, 1 ♂; 01.08.2001, 1 ♀; Gevrek, 19.06.2000, 6 ♂, 1 ♀; 14.08.2001, 1 ♂, 6 ♀), Reşadiye (10.08.2000, 3 ♀), Niksar (Musapınarı, 27.06.2000, 5 ♀; 16.07.2001, 2 ♀; Şahinli, 27.06.2000, 7 ♀; 22.07.2001, 2 ♀; Çerköy, 27.06.2000, 7 ♀; 18.07.2001, 10 ♀), Pazar (Dereköy, 19.06.2000, 6 ♀; Erkiilet, 06.06.2000, 2 ♀).

Distribution in Turkey: Kayseri (Bischof, 1902); Ankara, İzmir (Gadeau de Kerville, 1939); Ankara (Tuatay et al., 1972; Düzgüneş et al., 1982); Marmara Region (Atak, 1975); Çukurova (Zeren & Düzgüneş, 1984); Akdeniz Region (Özgür, 1986); Erzurum (Alaoğlu & Özbek, 1987); Erzurum (Hayat & Alaoğlu, 1990a); Kayseri, Kahramanmaraş, Kastamonu (Sarıbiyik & Aktaş, 1996).

Distribution in the world: Europe, Asia, USSR, North Africa, Nearctic and Oriental Region (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Sphaerophoria turkmenica Bankowska, 1964

Material examined: Turhal (Çivril, 27.05.2001, 2 ♂; 19.06.2001, 4 ♂, 2 ♀; Kalaycık, 14.08.2000, 2 ♂, 1 ♀; 28.05.2001, 1 ♂; Çaylı, 03.07.2000, 1 ♂; 08.08.2000, 3 ♀; 25.05.2001, 3 ♂, 2 ♀), Zile (Kireçli, 19.06.2000, 1 ♂, 5 ♀; 01.07.2001, 3 ♂; Karayün, 27.06.2000, 3 ♂, 1 ♀; 18.06.2001, 1 ♂, 1 ♀; Ede, 28.06.2001, 2 ♀), Tokat (Dökmektepe, 14.08.2000, 2 ♀; 01.06.2001, 4 ♂; 11.06.2001, 1 ♀; Akyamaç, 26.05.2000, 1 ♀; 30.05.2001, 5 ♂; Çördük, 10.08.2000, 2 ♂, 2 ♀; 05.07.2001, 9 ♀; Söngüt, 14.08.2000, 4 ♂, 6 ♀; 11.07.2001, 18 ♀), Artova (Aktaş, 03.08.2000, 19 ♀; 05.06.2000, 12 ♀; 20.06.2001, 2 ♂, 2 ♀; Kabatepe, 03.08.2000, 1 ♂; 14.06.2001, 1 ♂; Yağcımusa, 03.08.2000, 1 ♀), Almus (Bakımlı, 07.06.2000, 1 ♂, 5 ♀; 22.08.2001, 12 ♀; Serince, 26.05.2000, 1 ♂; 01.08.2001, 1 ♀; Gevrek, 19.06.2000, 6 ♂, 1 ♀;

14.08.2001, 1 ♂, 6 ♀), Reşadiye (10.08.2000, 3 ♀), Niksar (Musapınarı, 27.06.2000, 5 ♀; 16.07.2001, 2 ♀; Şahinli, 27.06.2000, 7 ♀; 22.07.2001, 2 ♀; Çerköy, 27.06.2000, 7 ♀; 18.07.2001, 10 ♀), Pazar (Dereköy, 19.06.2000, 6 ♀; Erkilet, 06.06.2000, 2 ♀).

Distribution in Turkey: Erzurum (Hayat, 1989).

Distribution in the world: Europe, Asia, USSR, North Africa (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Sphaerophoria rueppelli (Wiedemann, 1830)

Material examined: Almus (Gevrek, 14.08.2001, 1 ♂).

Distribution in Turkey: Ankara, Kırkkale (Düzgüneş et al., 1982); İzmir (Erkin 1983); Adana, Antakya, İçel, Osmaniye (Özgür, 1987).

Distribution in the world: Europe, Asia, USSR, North Africa (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Tribus: Chrysotoxini

Chrysotoxum cautum (Harris, 1776)

Material examined: Artova (04.06.1999, 1 ♀).

Distribution in Turkey: Erzurum (Hurkmans & Hayat, 1997).

Distribution in the world: Europe, USSR (Peck, 1988).

Biology: Unknown.

Chrysotoxum intermedium Meigen, 1822

Material examined: Tokat (02.10.1999, 1 ♂)

Distribution in Turkey: Kayseri (Bischof, 1902); Turkey (no locality) (Sack, 1932); İzmir (Gadeau de Kerville, 1939); Kayseri, Kastamonu (Sarıbiyık & Aktaş, 1996).

Distribution in the world: Europe, USSR, Asia, North Africa (Peck, 1988).

Biology: Unknown.

Chrysotoxum parmense Rondani, 1845

Material examined: Tokat (12.07.2001, 1 ♀).

Distribution in Turkey: Adana (Özgür, 1987); Kayseri (Sarıbiyık & Aktaş, 1996); Erzurum (Hurkmans & Hayat, 1997).

Distribution in the world: Europe, USSR, Asia (Peck, 1988).

Biology: Unknown.

Tribus: Melanostomatini

Melanostoma mellinum (Linnaeus, 1758)

Material examined: Tokat (Söngüt, 14.08.2000, 1 ♂, 2 ♀; 11.07.2001, 2 ♂, 4 ♀; Akyamaç, 05.06.2000, 2 ♂, 3 ♀; 26.05.2000, 1 ♂; 30.05.2001, 3 ♀;

Çördük, 05.07.2001, 1 ♂, 2 ♀; Dökmetepe, 14.08.2000, 1 ♂, 2 ♀; .06.2001, 2 ♂), Artova (Aktaş, 03.08.2000, 3 ♂, 4 ♀; Yağcımus, 03.08.2000, 1 ♀), Zile (Kireçli, 19.06.2000, 3 ♂, 1 ♀; Karayün, 18.06.2001, 1 ♀), Almus (Serince, 01.08.2001, 2 ♂, 4 ♀; Gevrek, 14.08.2001, 2 ♂, 1 ♀; Bakımlı, 22.08.2001, 2 ♂, 3 ♀), Niksar (Musapınarı, 16.07.2001, 2 ♂, 3 ♀; Şahinli, 27.06.2000, 1 ♂, 2 ♀), Turhal (Çaylı, 08.08.2000, 1 ♀; Çivril, 27.05.2001, 1 ♀; 19.06.2000, 1 ♂; Kalaycık, 14.08.2000 1 ♀; 28.05.2001 2 ♀), Pazar (Dereköy, 19.06.2000 3 ♂, 1 ♀).

Distribution in Turkey: Çukurova (Zeren & Düzgüneş, 1984); Akdeniz Region (Özgür, 1986); Erzurum (Hayat & Alaoğlu, 1990a).

Distribution in the world: Europe, Asia, USSR, North Africa, Nearctic Region (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Tribus: Paragini

Paragus bicolor (Fabricius, 1794)

Material examined: Almus (Serince, 01.08.2001, 3 ♂; Gevrek, 14.08.2001, 3 ♂; Bakımlı, 22.08.2001, 2 ♂, 1 ♀), Niksar (Çerköy, 18.07.2001, 1 ♂; Musapınarı, 16.07.2001, 1 ♀), Tokat (Söngüt, 11.07.2001, 2 ♂, 2 ♀; Çördük, 05.07.2001, 3 ♂, 1 ♀).

Distribution in Turkey: Kayseri (Bischof, 1902); Ankara, Akdeniz Region (Özgür 1986); Erzurum (Hayat & Alaoğlu 1990a); Kayseri, Kastamonu (Sarıbiyık & Aktaş, 1996).

Distribution in the world: Europe, Asia, USSR, North Africa, Nearctic Region (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Paragus tibialis (Falle'n, 1817)

Material examined: Almus (Gevrek, 14.08.2001, 4 ♂, 1 ♀; Serince, 01.08.2001, 2 ♂; Bakımlı, 22.08.2001, 1 ♀), Niksar (Çerköy, 18.07.2001, 2 ♂; Musapınarı, 16.07.2001, 2 ♂), Turhal (Çaylı, 08.08.2000, 2 ♂), Tokat (Çördük, 05.07.2001, 2 ♂; Söngüt, 11.07.2001, 1 ♂).

Distribution in Turkey: Ankara (Tuatay et al., 1972; Düzgüneş et al., 1982); Çukurova (Zeren & Düzgüneş, 1984); Akdeniz Region (Özgür, 1986); Erzurum (Hayat & Alaoğlu, 1990a); Kayseri, Kahramanmaraş, Kastamonu (Sarıbiyık & Aktaş, 1996).

Distribution in the world: Europe, USSR, Asia, North Africa, Nearctic and Oriental Region (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Paragus albifrons (Falle'n, 1817)

Material examined: Tokat (Çördük, 05.07.2001, 1 ♂).

Distribution in Turkey: Ankara (Düzgüneş et al., 1982).

Distribution in the world: Europe, USSR, Asia (Peck, 1988).

Biology: Predator on aphids (Bothe, 2000).

Paragus quadrifasciatus Meigen, 1822

Material examined: Niksar (Musapınarı, 16.07.2001, 1 ♀).

Distribution in Turkey: Izmir (Gül-Zümreoğlu, 1972); East Akdeniz Region (Yumruktepe &, Uygun 1994).

Distribution in the world: Europe, USSR, Asia, North Africa (Peck, 1988).

Biology: Predator on aphids (Shtakel' berg, 1988).

Tribus: Eumerini

Eumerus strigatus (Fallén, 1817)

Material examined: Tokat (13.04.1999, 1 ♀; Söngüt, 11.07.2001, 1 ♂), Turhal (Çaylı, 08.08.2000, 1 ♂), Almus (Gevrek, 14.08.2001, 1 ♂).

Distribution in Turkey: Turkey (no locality) (Sack, 1932); Manisa (Gül-Zümreoğlu, 1972); Çukurova Region (Özgür, 1987); Kayseri (Saribıyık & Aktaş, 1996).

Distribution in the world: Europe, USSR, Asia, North Africa, Nearctic Region (Peck, 1988).

Biology: Phytophag (Bothe, 2000).

Tribus: Eristalini

Eristalinus aeneus (Scopoli, 1763)

Material examined: Tokat (05.08.1999, 1 ♂), Turhal (Çaylı, 11.06.2001, 1 ♂, 2 ♀).

Distribution in Turkey: Ankara (Tuatay et al., 1972); Akdeniz Region (Özgür, 1986); Kayseri, Kastamonu (Saribıyık & Aktaş, 1996).

Distribution in the world: Europe, USSR, Asia, North Africa, Nearctic, Afrotropical and Oriental Region (Peck, 1988).

Biology: Saprophagous (Bothe, 2000).

Eristalis tenax (Linnaeus, 1758)

Material examined: Almus (Gevrek, 19.06.2000, 1 ♀), Tokat (Söngüt, 14.08.2000, 1 ♀; Akyamaç, 30.05.2001, 1 ♂), Turhal (Çaylı, 11.06.2001, 1 ♀; Çivril, 27.05.2001, 1 ♂, 1 ♀; Kalaycık, 14.08.2000, 1 ♂), Artova (Yağcımsa, 22.06.2001, 5 ♀; Aktaş, 03.08.2000, 1 ♂, 3 ♀), Niksar (Şahinli, 27.06.2000, 1 ♂; 22.07.2001, 1 ♀), Zile (Ede, 06.06.2000, 2 ♂, 11.07.2001, 1 ♂; 1 ♀; 28.06.2001, 3 ♂, 1 ♀), Reşadiye (10.08.2000, 7 ♂, 6 ♀).

Distribution in Turkey: Kayseri (Bischof, 1902); Izmir (Gadeau de Kerville, 1939); Ankara (Tuatay et al., 1972); Adana, Antalya, Mersin, Antakya (Özgür, 1986); Erzurum (Hayat & Alaoğlu, 1990b); Kayseri, Kahramanmaraş, Kastamonu (Saribıyık & Aktaş, 1996).

Distribution in the world: Europe, USSR, Asia, North Africa (Peck, 1988).

Biology: Saprophagous (Bothe, 2000).

Eristalis arbustorum (Linnaeus, 1758)

Material examined: Zile (Ede, 06.06.2000, 3 ♂, 3 ♀; 11.07.2001, 1 ♂, 1 ♀; 28.06.2001, 3 ♂; Karayün, 27.06.2000, 1 ♂), Reşadiye (10.08.2000, 2 ♀), Niksar (Çerköy, 27.06.2000, 7 ♂, 5 ♀; Musapınarı, 27.06.2000, 1 ♂; Şahinli, 27.06.2000, 1 ♂, 2 ♀), Artova (Aktaş, 03.08.2000, 3 ♂, 1 ♀), Almus (Bakımlı, 07.06.2000, 1 ♂; Serince, 26.05.2000, 1 ♂; Gevrek, 05.09.1999, 1 ♂; 19.06.2000, 2 ♂, 1 ♀), Tokat (05.08.1999, 3 ♂, 8 ♀; Çördük, 05.07.2001, 1 ♂), Turhal (Çaylı, 25.05.2001, 1 ♂; Kalaycık, 14.08.2000, 1 ♀; 28.05.2001, 1 ♂).

Distribution in Turkey: Ankara (Tuatay et al., 1972); Adana, Antalya, Mersin, Antakya (Özgür, 1986); Erzurum (Hayat & Alaoğlu, 1990b); Kayseri, Kastamonu (Sarıbiyik & Aktaş, 1996).

Distribution in the world: Europe, USSR, Asia, North Africa, Nearctic and Oriental Region (Peck, 1988).

Biology: Saprophagous (Bothe, 2000).

Eristalis jugorum Egger, 1858

Material examined: Zile (Ede, 06.06.2000, 1 ♀).

Distribution in Turkey: Erzurum (Hayat & Alaoğlu, 1990b).

Distribution in the world: Europe, USSR (Peck, 1988).

Biology: Saprophagous (Bothe, 2000).

Helophilus continuus Loew, 1854

Material examined: Turhal (Kalaycık, 14.08.2000, 1 ♀).

Distribution in Turkey: Erzurum (Hayat & Alaoğlu, 1990b).

Distribution in the world: USSR, Asia (Peck, 1988).

Biology: Saprophagous (Bothe, 2000).

Myathropa florea (Linnaeus, 1758)

Material examined: Niksar (Musapınarı, 16.07.2001, 1 ♂, 1 ♀), Tokat (31.07.1999, 1 ♀; 02.08.1999, 1 ♂; 05.10.2001, 1 ♀), Almus (Serince, 01.08.2001, 1 ♂).

Distribution in Turkey: Ankara (Tuatay et al., 1972); Akdeniz Region (Özgür, 1986); Kahramanmaraş, Kastamonu (Sarıbiyik & Aktaş, 1996).

Distribution in the world: Europe, USSR, Asia, North Africa (Peck, 1988).

Biology: Saprophagous (Bothe, 2000).

Tribus: Milesiini

Syrirta pipiens (Linnaeus, 1758)

Material examined: Tokat (13.03.1999, 4 ♀; 20.04.1999, 5 ♀; 15.05.1999, 1 ♀; 20.07.1999, 5 ♂, 5 ♀; Çördük, 10.08.2000, 9 ♂, 2 ♀; 05.07.2001, 12 ♂,

2 ♀; Söngüt, 14.08.2000, 1 ♂; 11.07.2001, 10 ♂, 3 ♀; Akyamaç, 05.06.2000, 1 ♂; Dökmektepe, 14.08.2000, 3 ♂; 01.06.2001, 1 ♂), Niksar (Çerköy, 27.06.2000, 15 ♂, 11 ♀; Şahinli, 27.06.2000, 5 ♂, 1 ♀; 22.07.2001, 1 ♂; Musapınarı, 27.06.2000, 4 ♂; 16.07.2001, 2 ♂), Artova (Kabatepe, 03.08.2000, 1 ♂, 1 ♀; 14.06.2001, 10 ♂, 2 ♀; Aktaş, 03.08.2000, 4 ♂, 2 ♀; 20.06.2001, 8 ♂, 3 ♀; Yağcımusa, 22.06.2001, 8 ♂, 3 ♀), Pazar (Dereköy, 19.06.2000, 11 ♂, 4 ♀), Zile (Ede, 06.06.2000, 2 ♂, 2 ♀; 28.06.2001, 8 ♂, 1 ♀; Kireçli, 01.07.2001, 10 ♂, 1 ♀; Karayün, 27.06.2000, 4 ♀; 18.06.2001, 7 ♂, 2 ♀), Turhal (Çaylı, 08.08.2000, 6 ♂, 1 ♀; 25.05.2001, 1 ♂, 1 ♀; Kalaycık 14.08.2000, 3 ♂; 28.05.2001, 1 ♂), Almus (Serince, 26.05.2000, 1 ♀; 01.08.2001, 1 ♂; Gevrek, 19.06.2000, 3 ♂; 14.08.2001, 4 ♀; Bakımlı, 07.06.2000, 2 ♂; 22.08.2001, 4 ♂).

Distribution in Turkey: Ankara (Tuatay et al., 1972); Adana, Antalya, Mersin, Antakya (Özgür, 1987); Erzurum (Hayat & Alaoğlu, 1990b); Kayseri, Kahramanmaraş, Kastamonu (Saribiyik & Aktaş, 1996).

Distribution in the world: Europe, USSR, Asia, North Africa, Nearctic and Oriental Region (Peck, 1988).

Biology: Saprothagous (Bothe, 2000).

Tribus: Chrysogasterini

Neoscia podagrica (Fabricius, 1775)

Material examined: Almus (Gevrek, 14.08.2001, 1 ♂), Niksar (Musapınarı, 16.07.2001, 1 ♂, 1 ♀).

Distribution in Turkey: Antalya, İçel, Adana (Özgür, 1987); Kastamonu (Saribiyik, 2001).

Distribution in the world: Europe, USSR (Peck, 1988).

Biology: Saprothagous, Phytophagous (Bothe, 2000).

Özet

Tokat ve Çevresinde Saptanan Syrphidae (Diptera) Türleri

Tokat ve çevresinde yapılan bu çalışmada Syrphidae (Diptera) familyasına ait 16 cins ve bu cinslere bağlı 28 tür tesbit edilmiştir. Bu türlerin dünyadaki ve Türkiye'deki dağılımları ile beraber beslenme rejimlerine yer verilmiştir.

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