

FAUNA OF TEPHRITINAE (DIPTERA: TEPHRITIDAE) IN KAHRAMANMARAŞ PROVINCE OF TURKEY

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ABSTRACT: This study is based on the Tephritinae (Diptera: Tephritidae) materials collected from Kahramanmaraş province during 2009 and 2010. During this study, 29 species belonging to 14 genera were determined from research region. Location information of the specimens examined, zoogeographical distributions and wing figures of all species were given.

KEY WORDS: Fruit flies, Tephritinae, Tephritidae, Diptera, fauna, Kahramanmaraş, Turkey

The fruit flies family are represented by 6 subfamilies, 500 genera and about 4500 species in the world (Freidberg, 2006). Faunistic studies on the fruit flies began with Giray (1966) in Turkey. Koçak & Kemal (2013) reported the largest list for Turkey Tephritidae fauna. According to this list, the Turkey Tephritidae fauna was represented with 156 species. In the studies done later, Yaran & Kütük (2014) described as a new species *Urophora turkeyensis* from Niğde. Yaran (2014) recorded *Dioxya sororcula*, *Terellia ivannikovi* and *Urophora trinervii* species for the first time from Turkey in his PhD thesis. Thus, the Turkey Tephritidae fauna has reached to 160 species. The Tephritinae subfamily has the highest number of genera and species in the family of fruit flies in Turkey.

In this study, fauna of Tephritinae (Diptera: Tephritidae) were determined in Kahramanmaraş province. During this study, 29 species belonging to 14 genera were identified from research region. Location information of the identified specimens, Zoogeographic distributions and wing figures of all species were given in this paper.

MATERIALS AND METHODS

Adult materials were collected randomly from host plants by using an insect net in Kahramanmaraş province during 2009 and 2010. In the research region, fruit flies specimens were collected from elevations ranging from 400 m to 2000 m. Species were identified using the keys of Giray (1979), Foote (1984), White (1988), Freidberg & Kugler (1989), Merz (1994), Kütük (2003a), Kütük & Özgür (2003a), Özgür & Kütük (2003), Pakyürek (2006), Kütük (2006b) and Yaran (2009). Specimens were deposited in the insect laboratory of Gaziantep University.

RESULTS

In this study, 390 (203 male, 187 female) specimens of Tephritinae subfamily were collected in Kahramanmaraş province. During the study, 29 species within

the Tephritinae were identified. Figures of wing patterns of all specimens were given and species listed alphabetically in this paper.

***Acanthophilus helianthi* (Rossi, 1794)**

Material examined: 2 ♂♂, 5 ♀♀, Göksun, 38° 00' N, 36° 29' E, 1339 m, 18.07.2009; 4 ♂♂, 2 ♀♀, Düğünürdu, 38° 08' N, 36° 41' E, 1389 m, 19.07.2009; 8 ♀♀, Afşin, 38° 12' N, 36° 58' E, 1165 m, 19.07.2009; 4 ♂♂, Narlı, 37° 20' N, 37° 09' E, 619 m, 13.05.2010; 1 ♂, 1 ♀, Türkoğlu, Aksu, 37° 30' N, 36° 53' E, 456 m, 13.05.2010; 2 ♂♂, 3 ♀♀, Kılılı, 37° 23' N, 36° 52' E, 516 m, 13.05.2010; 6 ♂♂, 2 ♀♀, Gökçük, 37° 27' N, 37° 35' E, 525 m, 15.05.2010; 5 ♂♂, 2 ♀♀, Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 15.06.2010; 2 ♂♂, 2 ♀♀, Hasancıklı, 37° 37' N, 36° 46' E, 478 m, 02.07.2010; 2 ♂♂, 1 ♀, Andırın, Yenice kale, 37° 35' N, 36° 35' E, 1226 m, 02.07.2010; 2 ♂♂, 6 ♀♀, Andırın, 37° 34' N, 36° 20' E, 1074 m, 02.07.2010; 6 ♂♂, 4 ♀♀, Torlar, 37° 32' N, 36° 25' E, 1071 m, 02.07.2010; 1 ♂, Elbistan, Büyükyapalak, 38° 18' N, 37° 18' E, 1300 m, 24.07.2010; 4 ♀♀, Kuzucak, 37° 35' N, 37° 10' E, 980 m, 25.07.2010; 2 ♂♂, 1 ♀, Bozlar, 37° 41' N, 37° 26' E, 941 m, 25.07.2010. **Distribution:** Albania, Andorra, Austria, Balearic Is., Belgium, Britain I., Bulgaria, Canary Is., Corsica, Crete, Cyclades Is., Cyprus, Czech Republic, Dodecanese Is., French mainland, Germany, Greek mainland, Hungary, Italian mainland, Madeira, Malta, Moldova, Netherlands, Norwegian mainland, Poland, Portuguese mainland, Romania, Russia Central, Russia East, Sardinia, Sicily, Slovakia, Spanish mainland, Switzerland, Turkey, Ukraine (Küttük, 2003a; Yaran, 2014; Fauna Europaea, 2017).

***Actinoptera discoidea* (Fallen, 1814)**

Material examined: 1 ♂, 1 ♀, Kahramanmaraş, Göksun, Değirmendere, 37° 55' N, 36° 27' E, 1401 m, 17.07.2010; 1 ♀, Göksun, Kirksu Plateau, 37° 46' N, 36° 21' E, 1525 m, 22.07.2010. **Distribution:** Armenia, Azerbaijan, Caucasus, Czech Republic, Danish mainland, Estonia, France, French mainland, Georgia, Germany, Hungary, Kazakhstan, Latvia, Lithuania, Moldavia, Poland, Russia, Sweden, Switzerland, Turkey, Ukraine, Yugoslavia (Foote, 1984; Merz, 1994; Küttük, 2003a; Fauna Europaea, 2017).

***Campiglossa producta* (Loew, 1844)**

Material examined: 1 ♂, 1 ♀, Kahramanmaraş, Göksun, Püren Gateway, 37° 57' N, 36° 32' E, 1500 m, 18.07.2009; 2 ♀♀, Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 15.06.2010; 2 ♀♀, Andırın, Yenice kale, 37° 35' N, 36° 35' E, 1226 m, 02.07.2010; 1 ♂, 1 ♀, Göksun, Kırkkilise, 37° 58' N, 36° 17' E, 1542 m, 08.07.2010; 2 ♀♀, Göksun, Yiricek, 37° 59' N, 36° 26' E, 1407 m, 23.07.2010. **Distribution:** Albania, Arabian Peninsula, Armenia, Austria, Azerbaijan, Azores, Balearic Is., Belgium, Britain I., Bulgaria, Canada, Canary Is., Channel Is., Corsica, Crete, Cyclades Is., Cyprus, Czech Republic, Denmark, Dodecanese Is., Egypt, Finland, French mainland, France, Germany, Greece, Greek mainland, Hungary, Iran, Iraq, Ireland, Israel, Italy, Italian mainland, Lebanon, Madeira, Malta, Moldova, Netherlands, North Aegean Is., Poland, Portugal, Portuguese mainland, Romania, Sardinia, Sicily, Slovakia, Spanish mainland, Switzerland, Syria, Turkey, Ukraine (Küttük, 2003a; Merz & Korneyev, 2004; Fauna Europaea, 2017).

***Capitetes ramulosa* (Loew, 1844)**

Material examined: 1 ♀, Kahramanmaraş, Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 15.06.2010. **Distribution:** Albania, Canary Islands, Cyprus, Egypt, France, Greece, Israel, Italy, Portugal, Syria, Turkey, Yugoslavia (Foote, 1984; Freidberg & Kugler, 1989; Küttük, 1998; Fauna Europaea, 2017).

***Dioxyna bidentis* (Robineau - Desvoidy, 1830)**

Material examined: 1 ♀, Kahramanmaraş, Andırın, 37° 34' N, 36° 20' E, 1074 m, 02.07.2010. **Distribution:** Albania, Austria, Belgium, Britain I., Bulgaria, China, Crete, Czech Republic, Danish mainland, Finland, French mainland, Germany, Hungary, Ireland,

Italian mainland, Lithuania, Malta, Netherlands, North Aegean Is., North Africa, Norway, Poland, Romania, Russia Central, Russia East, Sicily, Slovakia, Spain, Sweden, Switzerland, Turkey (Foote, 1984; Freidberg & Kugler, 1989; Kütük, 1998; Fauna Europaea, 2017).

***Euaresta bullans* (Wiedemann, 1830)**

Material examined: 1 ♀, Kahramanmaraş, Göksun, Beli Plateau, 37° 51' N, 36° 24' E, 1606 m, 18.07.2009; 1 ♂, Göksun, 38° 01' N, 36° 29' E, 1340 m, 19.07.2009; 1 ♀, Çağlayancerit, 37° 37' N, 37° 29' E, 960 m, 15.06.2010; 3 ♂♂, 3 ♀♀, Bozlar, 37° 41' N, 37° 26' E, 958 m, 30.06.2010; 1 ♀, Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 30.06.2010; 1 ♀, Andırın, 37° 33' N, 36° 21' E, 935 m, 02.07.2010; 1 ♂, 1 ♀, Andırın, 37° 33' N, 36° 21' E, 940 m, 08.07.2010; 1 ♂, 4 ♀♀, Bozlar, 37° 41' N, 37° 26' E, 930 m, 16.07.2010; 1 ♀, Göksun, Kızılöz, 38° 01' N, 36° 40' E, 1700 m, 18.07.2010; 1 ♀, Göksun, Doğankonak, 38° 15' N, 36° 26' E, 1600 m, 23.07.2010; 1 ♂, Göksun, Kinikköz, 38° 02' N, 36° 50' E, 1723 m, 24.07.2010; 1 ♀, Göksun, Kanlıkavak, 38° 06' N, 36° 38' E, 1416 m, 24.07.2010; 1 ♀, Bozlar, 37° 41' N, 37° 26' E, 941 m, 25.07.2010. **Distribution:** Argentina, Australia, Azores, Balearic Is., Bulgaria, China, Crete, France, French mainland, Greece, Hungary, Israel, Italian mainland, Italy, Kaliningrad Region, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madeira, Malta, Moldova, Monaco, Peru, Romania, Russia, Slovakia, South Africa, Spain, Spanish mainland, Turkey, Ukraine, United States, Uruguay (Hendel, 1927; Giray, 1969; Giray, 1979; Foote, 1984; Freidberg & Kugler, 1989; Norrbom & et al., 1999; Kütük, 2003a; Fauna Europaea, 2017).

***Goniurellia longicauda* Freidberg, 1980**

Material examined: 1 ♂, Kahramanmaraş, Narlı, Bölükçam, 37° 26' N, 37° 10' E, 638 m, 15.06.2010; 1 ♀, Çağlayancerit, 37° 37' N, 37° 29' E, 960 m, 15.06.2010; 2 ♀♀, Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 15.06.2010; 1 ♀, Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 30.06.2010; 1 ♂, Göksun, Keklikoluk, 38° 11' N, 36° 27' E, 1660 m, 17.07.2010. **Distribution:** Canary Is., Albania, Canary Islands, China, Cyprus, Egypt, France, French mainland, Israel, Lebanon, Libya, Morocco, Syria, Tunisia, Turkey (Foote, 1984; Freidberg & Kugler, 1989; Kütük, 2003aa; Fauna Europaea, 2017).

***Heringina guttata* (Fallen, 1814)**

Material examined: 1 ♂, 1 ♀, Kahramanmaraş, Göksun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 07.07.2010; 4 ♂♂, Göksun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 17.07.2010; 1 ♀, Göksun, Kanlıkavak, 38° 06' N, 36° 3' E, 1416 m, 24.07.2010. **Distribution:** Armenia, Austria, Azerbaijan, Czech Republic, Czechoslovakia, Danish mainland, Estonia, Finland, Georgia, Germany, Hungary, Iran, Kazakhstan, Latvia, Lithuania, Moldova, Netherlands, Poland, Russia, Sweden, Switzerland, Turkey, Ukraine (Foote, 1984; Merz, 1994; Kütük, 2003a; Fauna Europaea, 2017).

***Oxyina flavipennis* (Loew, 1844)**

Material examined: 1 ♂, 1 ♀, Kahramanmaraş, Göksun, Yiricek, 37° 59' N, 36° 26' E, 1407 m, 23.07.2010; 4 ♂♂, 2 ♀♀, Göksun, 38° 03' N, 36° 28' E, 1375 m, 23.07.2010. **Distribution:** Albania, Andorra, Austria, Belgium, Britain I., Bulgaria, Central and South Europe, Channel Is., Czech Republic, Estonia, Finland, France, French mainland, Germany, Greek mainland, Hungary, Israel, Italian mainland, Latvia, Lithuania, Macedonia, Moldavia, Netherlands, Norwegian mainland, Poland, Romania, Russia Central, Russia East, Sicily, Slovakia, Spanish mainland, Sweden, Switzerland, Turkey, Ukraine, UK (Foote, 1984; White, 1988; Freidberg & Kugler, 1989; Merz, 1994; Kütük, 2003a; Fauna Europaea, 2017).

***Sphenella marginata* (Fallen, 1814)**

Material examined: 1 ♂, Kahramanmaraş, Göksun, Geben, 37° 44' N, 36° 27' E, 1255 m, 18.07.2009; 3 ♂♂, 3 ♀♀, Göksun, 38° 01' N, 36° 29' E, 1340 m, 19.07.2009; 1 ♂, Narlı, 37° 20' N, 37° 09' E, 619 m, 13.05.2010; 1 ♂, Kılılı, 37° 23' N, 36° 52' E, 516 m, 13.05.2010; 1 ♀,

Göksun, Kabağaç, 38° 08' N, 37° 02' E, 1119 m, 07.07.2010; 1 ♂, Göksun, Kırıkkilise, 37° 58' N, 36° 17' E, 1542 m, 08.07.2010; 1 ♀, Göksun, Yiricek, 37° 59' N, 36° 26' E, 1407 m, 23.07.2010; 2 ♂♂, 1 ♀, Göksun, Aciömer, 38° 02' N, 36° 36' E, 1342 m, 24.07.2010. **Distribution:** Afro-Tropical Region, Albania, Arabian Peninsula, Armenia, Austria, Azerbaijan, Azores, Balearic Is., Belgium, Britain I., Bulgaria, Canary Is., Caucasus, Channel Is., Corsica, Crete, Croatia, Cyclades Is., Cyprus, Czech Republic, Danish mainland, Denmark, Decanese Is., East Palearctic, Egypt, France, French mainland, Finland, Georgia, Germany, Greece, Greek mainland, Hungary, Iran, Iraq, Ireland, Israel, Italian mainland, Italy, Lebanon, Lithuania, Madeira, Malta, Moldova, Netherlands, North Aegean Is North Africa., Northern Ireland, Norway, Norwegian mainland, Poland, Portugal, Portuguese mainland, Romania, Russia East, Sardinia, Sicily, Slovakia, Spain, Spanish mainland, Sweden, Syria, Switzerland, Turkey, (Hendel, 1927; Foote, 1984; White, 1988; Freidberg & Kugler, 1989; Merz, 1994; Kütük, 2003a; Merz & Korneyev, 2004; Fauna Europaea, 2017).

Tephritis carmen Hering, 1937

Material examined: 1 ♀, Kahramanmaraş, Göksun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 23.07.2010; 1 ♂, 1 ♀, Göksun, Huğtaş, 37° 58' N, 36° 20' E, 1652 m, 23.07.2010. **Distribution:** Albania, Austria, Bulgaria, Belgium, France, French mainland, Greek mainland, Italian mainland, Italy, Spain, Spanish mainland, Switzerland, Turkey, Ukraine (Foote, 1984, Merz, 1994; Özgür & Kütük, 2003; Fauna Europaea, 2017).

Tephritis cometa (Loew, 1840)

Material examined: 1 ♂, Kahramanmaraş, Göksun, 38° 01' N, 36° 29' E, 1340 m, 19.07.2009; 1 ♀, Göksun, Huğtaş, 37° 58' N, 36° 20' E, 1652 m, 23.07.2010. **Distribution:** Afghanistan, Armenia, Austria, Azerbaijan, Belgium, Britain I., Bulgaria, Central European Russia Czech Republic, Danish mainland, East European Russia, East Palearctic, England, Estonia, Finland, French mainland, Georgia, Germany, Greek mainland, Hungary, Israel, Italian mainland, Kazakhstan, Kyrgyzstan, Latvia, Liechtenstein, Lithuania, Moldova, Near East, Netherlands, Norwegian mainland, Poland, Romania, Russia, Slovakia, Spanish mainland, Sweden, Switzerland, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan (Hendel, 1927; Foote, 1984; White, 1988; Freidberg & Kugler, 1989; Merz, 1994; Kütük, 2003a; Fauna Europaea, 2017).

Tephritis dioscurea (Loew, 1856)

Material examined: 1 ♀, Kahramanmaraş, Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 15.06.2010; 1 ♂, Göksun, Kırıkkilise, 37° 58' N, 36° 17' E, 1542 m, 08.07.2010; 3 ♂♂, 1 ♀, Göksun, Huğtaş, 37° 58' N, 36° 20' E, 1658 m, 17.07.2010; 1 ♂, 1 ♀, Göksun, Değirmendere, 37° 55' N, 36° 27' E, 1401 m, 17.07.2010; 1 ♀, Göksun, Beli Plateau, 37° 51' N, 36° 24' E, 1623 m, 17.07.2010; 2 ♀♀, Göksun, Kızılöz, 38° 01' N, 36° 40' E, 1700 m, 18.07.2010; 1 ♀, Göksun, Değirmendere, 37° 55' N, 36° 26' E, 1393 m, 22.07.2010; 1 ♂, 2 ♀♀, Göksun, Huğtaş, 37° 58' N, 36° 20' E, 1652 m, 23.07.2010; 1 ♂, Göksun, 38° 03' N, 36° 28' E, 1375 m, 23.07.2010; 1 ♀, Göksun, Kınıkköz, 38° 02' N, 36° 50' E, 1723 m, 24.07.2010. **Distribution:** Andorra, Armenia, Austria, Azerbaijan, Bulgaria, Central European Russia, Corsica, Czech Republic, East European Russia, East Palearctic, Estonia, Finland, France, French mainland, Georgia, Germany, Hungary, Italian mainland, Kazakhstan, Latvia, Lithuania, Moldova, Near East, Netherlands, Poland, Romania, Sicily, Slovakia, Spanish mainland, Sweden, Switzerland, Turkey, Ukraine, (Hendel, 1927; Foote, 1984; Merz, 1994; Thompson, 1998; Kütük, 2005b; Yaran, 2009; Fauna Europaea, 2017).

Tephritis divisa Rondani, 1871

Material examined: 4 ♂♂, 1 ♀, Kahramanmaraş, Çağlayancerit, 37° 37' N, 37° 29' E, 960 m, 15.06.2010; 1 ♂, Bozlar, 37° 43' N, 37° 24' E, 931 m, 15.06.2010; 3 ♂♂, 2 ♀♀, Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 15.06.2010; 1 ♀, Türkoğlu, Önsen, 37° 32' N, 36° 49' E, 700 m, 15.06.2010; 1 ♂, Pazarcık, 37° 27' N, 37° 13' E, 707 m, 16.06.2010; 5 ♂♂, 3 ♀♀,

Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 30.06.2010; 1 ♂, Andırın, Yenice kale, 37° 35' N, 36° 35' E, 1226 m, 02.07.2010; 2 ♀♀, Andırın, 37° 34' N, 36° 20' E, 1074 m, 02.07.2010; 3 ♂♂, 1 ♀, Gökşun, Ahmetçik, 38° 01' N, 36° 40' E, 1578 m, 06.07.2010; 1 ♂, 2 ♀♀, Düğün yurdu, 38° 08' N, 36° 41' E, 1400 m, 07.07.2010; 1 ♂, Gökşun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 07.07.2010; 2 ♂♂, Gökşun, Kırkkilise, 37° 58' N, 36° 17' E, 1542 m, 08.07.2010; 1 ♂, Andırın, 37° 33' N, 36° 21' E, 940 m, 08.07.2010; 1 ♂, Çağlayancerit, 37° 43' N, 37° 13' E, 1612 m, 16.07.2010. **Distribution:** Balearic Is., Crete, Croatia, Cyprus, France, French mainland, Greek mainland, Hungary, Israel, Italian mainland, Italy, Near East, North Aegean Island, Sardinia, Sicily, Spain, Spanish mainland, Switzerland, Turkey (Thompson, 1998; Küçük, 2005b; Pakyürek, 2006; Fauna Europaea, 2017).

Tephritis erdemli Küçük, 2008b

Material examined: 3 ♀♀, Kahramanmaraş, Gökşun, Kınıkkoz, 38° 01' N, 36° 49' E, 1915 m, 18.07.2010; 1 ♀, Gökşun, Kınıkkoz, 38° 02' N, 36° 50' E, 1723 m, 24.07.2010. **Distribution:** Turkey (Küçük, 2008b).

Tephritis fallax (Loew, 1844)

Material examined: 1 ♀, Kahramanmaraş, Andırın, Yenice kale, 37° 35' N, 36° 35' E, 1226 m, 02.07.2010; 1 ♀, Andırın, Yenice kale, 37° 35' N, 36° 35' E, 1226 m, 08.07.2010; 1 ♂, Gökşun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 17.07.2010; 1 ♂, Gökşun, Huğtaş, 37° 58' N, 36° 20' E, 1652 m, 23.07.2010; 1 ♀, Çağlayancerit, Kaleköy, 37° 45' N, 37° 11' E, 1560 m, 25.07.2010. **Distribution:** Andorra, Austria, Bulgaria, Czech Republic, East European Russia, Estonia, French mainland, Germany, Hungary, Italian mainland, Kazakhstan, Latvia, Lithuania, Netherlands, Poland, Romania, Slovakia, Spanish mainland, Sweden, Switzerland, Turkey, Ukraine (Foote, 1984; Merz, 1994; Thompson, 1998; Özgür & Küçük, 2003; Fauna Europaea, 2017).

Tephritis formosa (Loew, 1844)

Material examined: 1 ♂, Kahramanmaraş, Andırın, 37° 34' N, 36° 20' E, 1074 m, 02.07.2010; 1 ♀, Gökşun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 08.07.2010; 1 ♂, 1 ♀, Gökşun, Kırkkilise, 37° 58' N, 36° 17' E, 1542 m, 08.07.2010; 1 ♂, 2 ♀♀, Gökşun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 17.07.2010; 1 ♂, 2 ♀♀, Gökşun, Beli Plateau, 37° 51' N, 36° 24' E, 1623 m, 17.07.2010; 1 ♂, Gökşun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 23.07.2010; 1 ♀, Gökşun, 38° 03' N, 36° 28' E, 1375 m, 23.07.2010; 1 ♀, Gökşun, Doğankonak, 38° 15' N, 36° 26' E, 1600 m, 23.07.2010. **Distribution:** Albania, Andorra, Armenia, Austria, Azerbaijan, Balearic Is., Belgium, Britain Is., Bulgaria, Caucasus, Channel Is., Corsica, Crete, Czech Republic, Europe, French mainland, Georgia, Germany, Greek mainland, Hungary, Iran, Israel, Italian mainland, Malta, Moldova, Near East, Netherlands, Poland, Portuguese mainland, Romania, Russia, Sardinia, Sicily, Slovakia, Spanish mainland, Switzerland, Turkey, Ukraine, United Kingdom (Hendel, 1927; Foote, 1984; White, 1988; Freidberg & Kugler, 1989; Merz, 1994; Küçük, 2003a; Fauna Europaea, 2017).

Tephritis frauenfeldi Hendel, 1927

Material examined: 1 ♀, Kahramanmaraş, Andırın, Yenice kale, 37° 35' N, 36° 35' E, 1226 m, 02.07.2010; 1 ♂, Gökşun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 17.07.2010; 1 ♂, Gökşun, Huğtaş, 37.58 N, 36.20 E, 1652 m, 23.07.2010. **Distribution:** Albania, Austria, Estonia, Greek mainland, Hungary, Italian mainland, Italy, Latvia, Lithuania, Moldova, Near East, Romania, Russia, Slovakia, Switzerland, Turkey, Ukraine (Foote, 1984; Merz, 1994; Thompson, 1998; Özgür & Küçük 2003; Fauna Europaea, 2017).

Tephritis hurvitzii Freidberg, 1981

Material examined: 1 ♀, Kahramanmaraş, Narlı, Bölükçam, 37° 26' N, 37° 10' E, 638 m, 15.06.2010; 1 ♂, Gökşun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 17.07.2010; 1 ♂, Andırın, Suluyayla, 37° 34' N, 36° 31' E, 1145 m, 22.07.2010; 1 ♂, Gökşun, Acielma, 38° 00' N, 36° 25'

E, 1650 m, 23.07.2010; 1 ♂, Göksun, 38° 03' N, 36° 28' E, 1375 m, 23.07.2010. **Distribution:** Cyprus, East Palearctic, Greek mainland, Iran, Iraq, Israel, Kazakhstan, Kyrgyzstan, Near East, Russia, Syria, Turkey, Uzbekistan (Foote, 1984; Freidberg & Kugler, 1989; Freidberg & Küttük, 2002; Merz & Korneyev, 2004; Fauna Europaea, 2017).

Tephritis hyoscyami (Linnaeus, 1758)

Material examined: 1♂, Kahramanmaraş, Göksun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 07.07.2010; 1♂, 1♀, Göksun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 08.07.2010; 2♂♂, 1♀, Göksun, Kırkkilise, 37° 58' N, 36° 17' E, 1542 m, 08.07.2010; 1♂, 1♀, Göksun, Yiricek, 37° 59' N, 36° 26' E, 1407 m, 17.07.2010; 3♂♂, 5♀♀, Göksun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 17.07.2010; 3♂♂, 4♀♀, Göksun, Huğtaş, 37° 58' N, 36° 20' E, 1658 m, 17.07.2010; 1♂, 2♀♀, Göksun, Beli Plateau, 37° 51' N, 36° 24' E, 1623 m, 17.07.2010; 2♂♂, Göksun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 23.07.2010; 5♂♂, Göksun, Huğtaş, 37° 58' N, 36° 20' E, 1652 m, 23.07.2010; 1♂, 1♀, Göksun, Fındıklıyokak, 37° 56' N, 36° 24' E, 1590 m, 23.07.2010. **Distribution:** Albania, Armenia, Austria, Azerbaijan, Belgium, Britain I., China, Czech Republic, Danish mainland, East European Russia, East Palearctic, Estonia, Finland, French mainland, Georgia, Germany, Hungary, Ireland, Italian mainland, Latvia, Lithuania, Moldova, Near East, Netherlands, Northern and Central Europe, Norwegian mainland, Poland, Portuguese mainland, Romania, Russia, Slovakia, Sweden, Switzerland, Turkey, Ukraine (Foote, 1984; Merz, 1994; Küttük, 2003a; Fauna Europaea, 2017).

Tephritis mariannae Merz, 1992

Material examined: 1♂, Kahramanmaraş, Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 30.06.2010; 1♂, Andırın, 37° 34' N, 36° 20' E, 1074 m, 02.07.2010; 2♀♀, Çağlayancerit, 37° 43' N, 37° 13' E, 1612 m, 16.07.2010; 2♀♀, Göksun, Yiricek, 37° 59' N, 36° 26' E, 1407 m, 23.07.2010. **Distribution:** French mainland, Switzerland, Turkey (Merz, 1994; Küttük 2006a; Fauna Europaea, 2017).

Tephritis nigricauda (Loew, 1856)

Material examined: 1♂, Kahramanmaraş, Göksun, Huğtaş, 37° 58' N, 36° 20' E, 1658 m, 07.07.2010; 1♂, Göksun, Kırkkilise, 37° 58' N, 36° 17' E, 1542 m, 08.07.2010; 2♀♀, Göksun, Keklikoluk, 38° 11' N, 36° 27' E, 1660 m, 17.07.2010; 2♂♂, Göksun, Huğtaş, 37° 58' N, 36° 20' E, 1658 m, 17.07.2010; 1♂, Göksun, Kirksu Plateau, 37° 46' N, 36° 21' E, 1525 m, 22.07.2010; 1♀, Göksun, Değirmendere, 37° 55' N, 36° 26' E, 1393 m, 22.07.2010; 1♂, Göksun, Yiricek, 37° 59' N, 36° 26' E, 1407 m, 23.07.2010; 2♂♂, Göksun, Huğtaş, 37° 58' N, 36° 20' E, 1652 m, 23.07.2010; 1♀, Göksun, Doğankonak, 38° 15' N, 36° 26' E, 1600 m, 23.07.2010; 1♂, Çağlayancerit, Kaleköy, 37° 45' N, 37° 11' E, 1560 m, 25.07.2010. **Distribution:** Afghanistan, Albania, Austria, Balearic Is., Bulgaria, Corsica, Crete, Czech Republic, East European Russia, East Palearctic, Estonia, Far East, France, Germany, Greek mainland, Hungary, Italian mainland, Latvia, Lithuania, Malta, Moldova, Near East, North Aegean Is., North Africa, North European, Poland, Portuguese mainland, Romania, Russia, Sardinia, Sicily, Spanish mainland, Switzerland, Syria, Turkey, Ukraine (Foote, 1984; Merz, 1994; Küttük & Özgür, 2003a; Merz & Korneyev, 2004; Fauna Europaea, 2017).

Tephritis postica (Loew, 1844)

Material examined: 2♂♂, Kahramanmaraş, Çağlayancerit, 37° 37' N, 37° 29' E, 960 m, 15.06.2010; 1♀, Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 15.06.2010; 2♂♂, 1♀, Göksun, Mehmetbey, 38° 04' N, 36° 27' E, 1480 m, 17.07.2010; 1♀, Göksun, Kınıkkoz, 38° 02' N, 36° 50' E, 1723 m, 24.07.2010; 1♂, Göksun, Kabaağaç, 38° 10' N, 37° 01' E, 1120 m, 24.07.2010; 5♂♂, 4♀♀, Elbistan, Büyükyapalak, 38° 18' N, 37° 18' E, 1300 m, 24.07.2010. **Distribution:** Albania, Austria, Balearic Is., China, Corsica, Crete, Cyprus, Czech Republic, East Palearctic, France, Georgia, Germany, Greece, Hungary, Iran, Israel, Italian mainland, Kazakhstan, Kyrgyzstan, Moldova, Near East, North Africa, Poland, Romania, Sicily, Slovakia, Spanish mainland, Switzerland, Turkey, West Asia (Hendel, 1927; Zaitzev, 1947;

Richter, 1965; Giray, 1979; Foote, 1984; Freidberg & Kugler, 1989; Merz, 1994; Wang, 1998; Norrbom & et al., 1999; Merz & Korneyev, 2004; Fauna Europaea, 2017).

Tephritis praecox (Loew, 1844)

Material examined: 1 ♂, 1 ♀, Kahramanmaraş, Andırın, 37° 34' N, 36° 20' E, 1074 m, 02.07.2010; 1 ♀, Düğünürdu, 38° 08' N, 36° 41' E, 1400 m, 07.07.2010; 1 ♀, Göksun, Keklikoluk, 38° 11' N, 36° 27' E, 1660 m, 17.07.2010; 1 ♂, Göksun, Yiricek, 37° 59' N, 36° 26' E, 1407 m, 17.07.2010; 1 ♂, 1 ♀, Göksun, Kızılöz, 38° 01' N, 36° 40' E, 1700 m, 18.07.2010; 1 ♂, 1 ♀, Göksun, Kınkköz, 38° 01' N, 36° 49' E, 1915 m, 18.07.2010; 1 ♂, Göksun, Yiricek, 37° 59' N, 36° 26' E, 1407 m, 23.07.2010; 1 ♂, Göksun, Huğtaş, 37° 58' N, 36° 20' E, 1652 m, 23.07.2010; 2 ♂♂, Göksun, Fındıkhoyak, 37° 56' N, 36° 24' E, 1590 m, 23.07.2010; 1 ♂, Göksun, Kanlıkavak, 38° 06' N, 36° 38' E, 1416 m, 24.07.2010. **Distribution:** Afghanistan, Albania, Austria, Balearic Is., Belgium, Britain I., Bulgaria, Canary Is., China, Corsica, Crete, Cyprus, Dodecanese Is., French mainland, Greek mainland, Hungary, Iraq, Israel, Italian mainland, Lebanon, Madeira Is., Malta, Near East, Netherlands, North Africa, Portuguese mainland, Romania, Sardinia, Sicily, Spanish mainland, Switzerland, Syria, Turkey, United Kingdom (Hendel, 1927, Foote, 1984, Freidberg & Kugler, 1989, Merz, 1994; Merz & Korneyev, 2004; Kütük, 2006b; Fauna Europaea, 2017).

Tephritis sauterina Merz, 1994

Material examined: 1 ♀, Kahramanmaraş, Göksun, Acielma, 38° 00' N, 36° 25' E, 1650 m, 23.07.2010. **Distribution:** Greece, Switzerland, Turkey (Merz, 1994; Kütük, 2003a; Fauna Europaea, 2017).

Tephritomyia lauta (Loew, 1869)

Material examined: 3 ♂♂, 1 ♀, Kahramanmaraş, Göksun, Püren Gateway, 37° 57' N, 36° 32' E, 1500 m, 18.07.2009; 1 ♀, Göksun, Beli Plateau, 37° 51' N, 36° 24' E, 1606 m, 18.07.2009; 1 ♀, Göksun, Geben, 37° 44' N, 36° 27' E, 1255 m, 18.07.2009; 1 ♂, Pazarcık, Akçalar, 37° 30' N, 37° 25' E, 918 m, 15.06.2010; 8 ♂♂, Çağlayancerit, 37° 44' N, 37° 14' E, 1461 m, 15.06.2010; 5 ♂♂, 7 ♀♀, Andırın, 37° 33' N, 36° 21' E, 935 m, 02.07.2010; 1 ♂, 2 ♀♀, Elbistan, Akpınar, 38° 04' N, 37° 12' E, 1323 m, 07.07.2010; 1 ♂, Çağlayancerit, Kozanlıpınar, 37° 36' N, 37° 11' E, 980 m, 16.07.2010; 3 ♂♂, Kuzucak, 37° 35' N, 37° 10' E, 980 m, 25.07.2010. **Distribution:** Crete, Cyclades Is., Cyprus, Dodecanese Is., Egypt, Greece, Iran, Israel, Morocco, Near East, North Africa, Tunisia, Turkey (Hendel, 1927; Giray, 1979; Foote, 1984; Freidberg & Kugler, 1989; Merz & Korneyev, 2004; Fauna Europaea, 2017).

Trupanea amoena (Frauenfeld, 1857)

Material examined: 1 ♂, Kahramanmaraş, Göksun, Püren Gateway, 37° 57' N, 36° 32' E, 1500 m, 18.07.2009; 1 ♀, Düğünürdu, 38° 08' N, 36° 41' E, 1389 m, 19.07.2009; 1 ♀, Narlı, 37° 20' N, 37° 09' E, 619 m, 15.06.2010; 1 ♂, Pazarcık, 37° 37' N, 37° 29' E, 929 m, 30.06.2010; 1 ♂, Elbistan, Erçene, 38° 12' N, 36° 58' E, 1285 m, 07.07.2010; 1 ♂, Andırın, 37° 33' N, 36° 21' E, 940 m, 08.07.2010; 2 ♀♀, Çağlayancerit, 37° 43' N, 37° 13' E, 1612 m, 16.07.2010; 1 ♂, 2 ♀♀, Göksun, Değirmendere, 37° 55' N, 36° 27' E, 1401 m, 17.07.2010; 1 ♂, Elbistan, Büyükyapalak, 38° 18' N, 37° 18' E, 1300 m, 24.07.2010; 1 ♂, Kuzucak, 37° 35' N, 37° 10' E, 980 m, 25.07.2010; 1 ♂, Bozlar, 37° 41' N, 37° 26' E, 941 m, 25.07.2010. **Distribution:** Afro-tropical region, Albania, Andorra, Australian region, Austria, Balearic Is., Belgium, Britain I., Bulgaria, Canary Is., Central and Northern Europe, Central Asia, Corsica, Crete, Croatia, Cyprus, Czech Republic, Dodecanese Is., East Palearctic, Ethiopia, Flip Flops, French mainland, Germany, Greek mainland, Hungary, India, Iran, Israel, Italian mainland, Madeira Is., Malta, Moldova, Near East, Netherlands, North Africa, Oriental region, Poland, Portuguese mainland, Romania, Sardinia, Sicily, Sri Lanka, Switzerland, Taiwan, Turkey, United Kingdom (Hendel, 1927; Giray, 1969; Foote, 1984;

White, 1988; Freidberg & Kugler, 1989; Merz, 1994; Merz & Korneyev, 2004; Fauna Europaea, 2017).

***Trupanea stellata* (Fuesslin, 1775)**

Material examined: 1 ♀, Kahramanmaraş, Pazarcık, 37° 27' N, 37° 13' E, 707 m, 16.06.2010; 1 ♀, Göksun, Kabağaç, 38° 08' N, 37° 02' E, 1119 m, 07.07.2010; 1 ♂, Düğünürdu, 38° 08' N, 36° 41' E, 1400 m, 07.07.2010; 2 ♂♂, 5 ♀♀, Göksun, Keklikoluk, 38° 11' N, 36° 27' E, 1660 m, 17.07.2010. **Distribution:** Afghanistan, Albania, Andorra, Australia, Austria, Azores Is., Balearic Is., Belgium, Britain I., Bulgaria, Canary Is., Central and Northern Russia, Channel Is., China, Corsica, Crete, Cyclades Is., Cyprus, Czech Republic, Danish mainland, Dodecanese Is., East European Russia, East Palearctic, Finland, French mainland, Germany, Greek mainland, Hungary, Iran, Ireland, Israel, Italian mainland, Lithuania, Madeira Is., Malta, Moldova, Near East, Netherlands, North Africa, North and East Africa, Northern Ireland, Norwegian mainland, Oriental region, Poland, Romania, Sardinia, Sicily, Slovakia, Spanish mainland, Sweden, Switzerland, Turkey, UK, Western and Central Asia (Hendel, 1927; Kerville 1939; Foote, 1984; White, 1988; Freidberg & Kugler, 1989; Merz, 1992, 1994; Norrbom & et al., 1999; Merz & Korneyev, 2004; Fauna Europaea, 2017).

***Xyphosia miliaria* (Schrank, 1781)**

Material examined: 1 ♂, Kahramanmaraş, Göksun, Huğtaş, 37° 58' N, 36° 20' E, 1658 m, 07.07.2010; 1 ♂, Göksun, Kirksu Plateau, 37° 46' N, 36° 21' E, 1525 m, 22.07.2010; 1 ♀, Göksun, 38° 03' N, 36° 28' E, 1375 m, 23.07.2010; 2 ♂♂, Göksun, Doğanonak, 38° 15' N, 36° 26' E, 1600 m, 23.07.2010. **Distribution:** Albania, Andorra, Armenia, Austria, Azerbaijan, Belgium, Britain I., Bulgaria, Central European Russia, Channel Is., Crete, Czech Republic, Danish mainland, East European Russia, East Palearctic, Eastern and Western Siberia, Estonia, Far East, Finland, French mainland, Georgia, Germany, Greek mainland, Hungary, Ireland, Italian mainland, Latvia, Lithuania, Moldova, Mongolia, Near East, Netherlands, Northern Ireland, Norwegian mainland, Poland, Romania, Sardinia, Sicily, Slovakia, Spanish mainland, Sweden, Switzerland, Turkey, Ukraine (Foote, 1984; Merz, 1994; Kütük, 2003a; Fauna Europaea, 2017).

DISCUSSION

Kahramanmaraş province is neighbor to Central Anatolia, Mediterranean, Eastern Anatolia and Southeast Anatolia regions. Therefore it is located in a transitional zone. This situation has also increased the faunistic and floristic diversity of the province. Especially, the widespread distribution of the Asteraceae family has made it possible for fruit flies to spread to this area as well.

Tephritinae is the subfamily with the largest number of species in the Palearctic region. The Turkey fauna is similarly that. 71 of the 160 species within the Tephritinae in Turkey. 29 species belonging to 14 genera of Tephritinae subfamily were determined in this study conducted in Kahramanmaraş. According to literatures, 17 species in Adana, 11 species in Adıyaman, 16 species in Aksaray, 10 species in Gaziantep, 16 species in Kayseri, 13 species in Kırşehir, 6 species in Kilis, 9 species in Nevşehir, 25 species in Niğde, 12 species in Sivas and 13 species in Şanlıurfa were identified which were located in around Kahramanmaraş province (Özgür & Kütük, 2003; Kütük, 2008a; Yaran & Kütük, 2012; Kütük & et al., 2013; Yaran & Kütük, 2015; Yaran & Kütük, 2016; Avşar & Kütük, 2017). When these literatures are compared, it is seen that Kahramanmaraş fauna is the richest fauna.

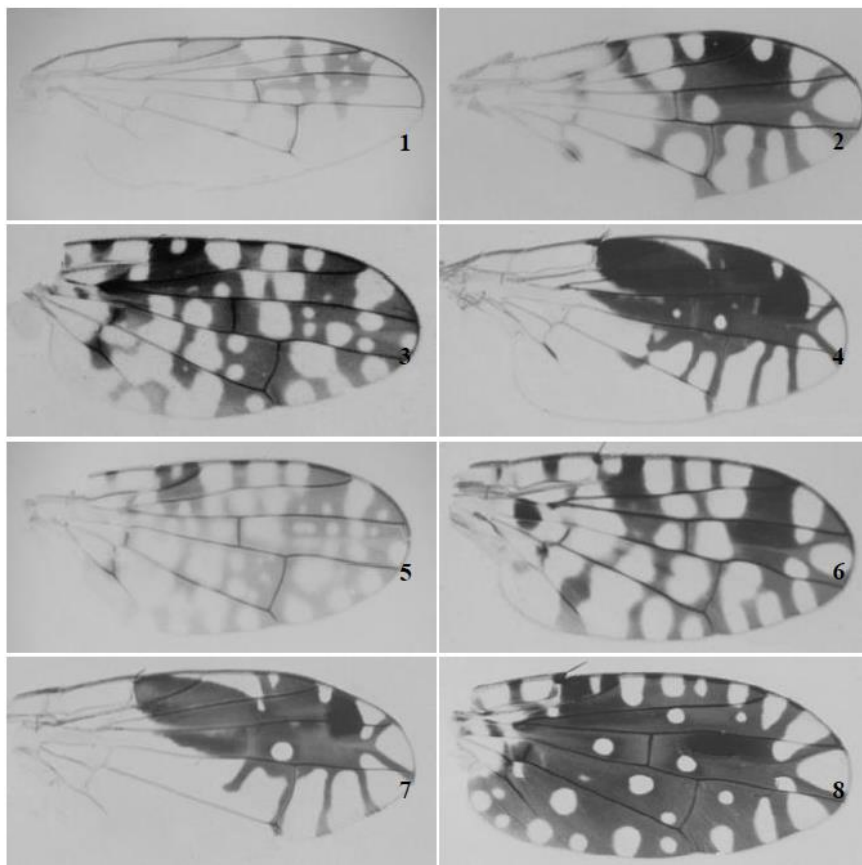
*This study was derived from master thesis of first author.

ACKNOWLEDGEMENTS

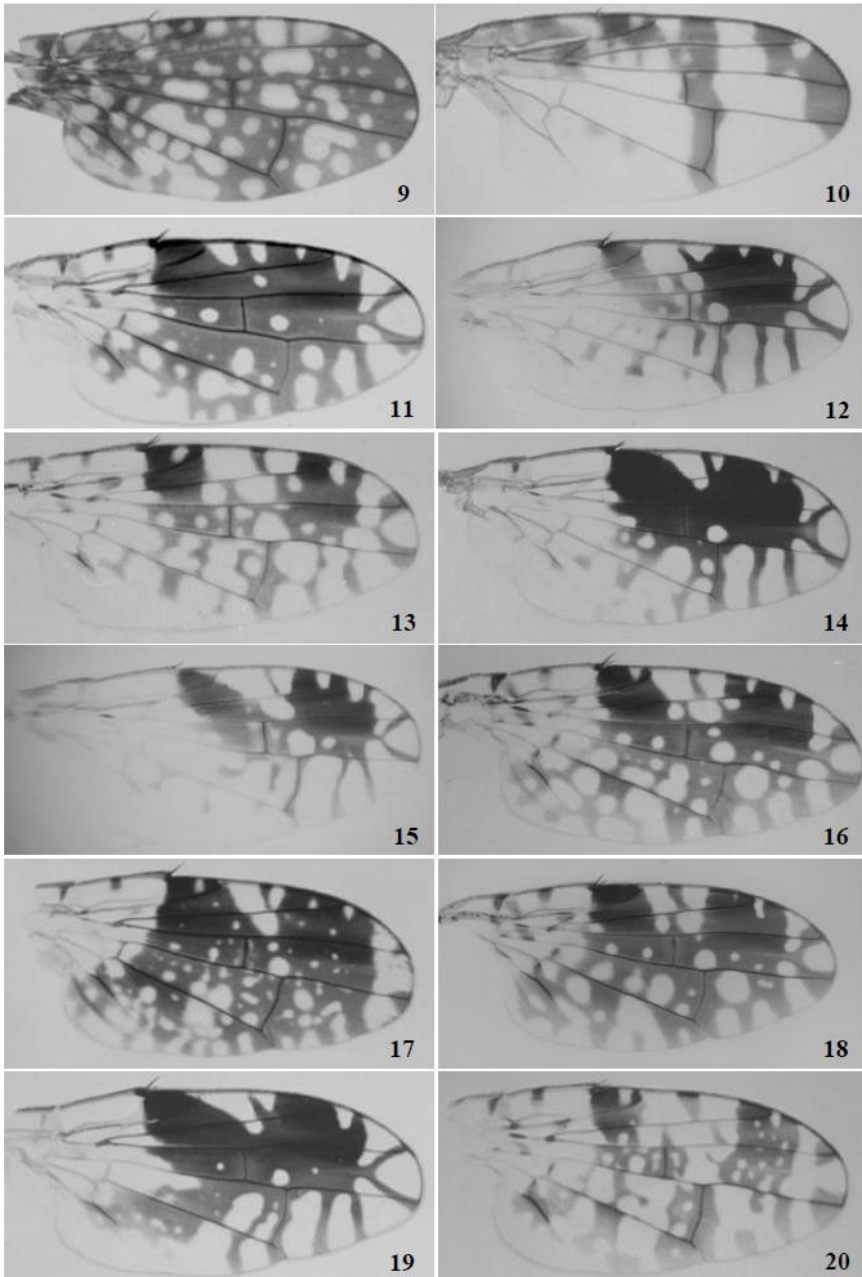
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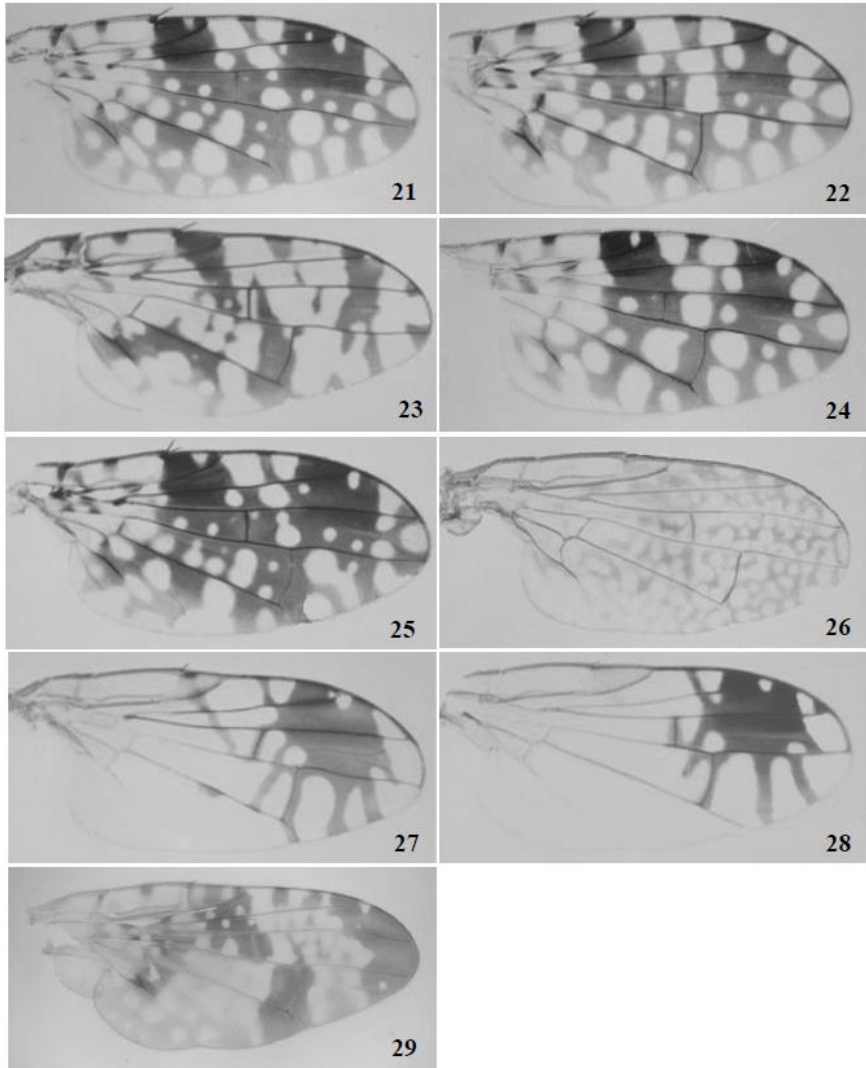
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Figures 1--8. Wings of fruit flies: 1. *Acanthiophilus helianthi*, 2. *Actinoptera discoidea*, 3. *Campiglossa producta*, 4. *Capitetes ramulosa*, 5. *Dioxyna bidentis*, 6. *Euaresta bullans*, 7. *Goniurellia longicauda*, 8. *Heringina guttata*.



Figures 9-20. Wings of fruit flies: 9. *Oxyna flavipennis*, 10. *Sphenella marginata*, 11. *Tephritis carmen*, 12. *T. cometa*, 13. *T. dioscurea*, 14. *T. divisa*, 15. *T. erdemlii*, 16. *T. fallax*, 17. *T. formosa*, 18. *T. frauenfeldi*, 19. *T. hurvitzi*, 20. *T. hyoscyami*.



Figures 21-29. Wings of fruit flies; 21. *Tephritis mariannae*, 22. *T. nigricauda*, 23. *T. postica*, 24. *T. praecox*, 25. *T. sauterina*, 26. *Tephritomyia lauta*, 27. *Trupanea amoena*, 28. *T. stellata*, 29. *Xyphosia miliaria*.