

AN EVALUATION ON INSECT FAUNA OF CHERRY AGROECOSYSTEMS OF TURKEY, PART I (INSECTA: ORTHOPTERA, DICTYOPTERA, DERMAPTERA, HEMIPTERA, THYSANOPTERA)

Serdar Tezcan* and Nilay Gülperçin**

* Department of Plant Protection, Faculty of Agriculture, Ege University, 35100 Bornova, Izmir, TURKEY. E-mail: serdar.tezcan@gmail.com, ORCID ID: 0000-0003-1980-9291

** Natural History Application and Research Center, Ege University, 35100 Bornova, Izmir, TURKEY. E-mail: nilay.gulpercin@ege.edu.tr, ORCID ID: 0000-0002-9309-6528

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ABSTRACT: In Turkey, studies regarding insect species being present in the cherry agroecosystems date back 80 years ago. This study was conducted to evaluate the insect fauna of cherry agroecosystems in the light of previous studies. In this section (Part I), the results of the evaluation made on 252 species / subspecies belonging to 173 genera of 39 families of five orders (Orthoptera, Dictyoptera, Dermaptera, Hemiptera, Thysanoptera) were given.

KEY WORDS: Cherry, fauna, insect diversity, Turkey, Orthoptera, Dictyoptera, Dermaptera, Hemiptera, Thysanoptera

In Turkey, studies regarding insect species being present in the cherry agroecosystems date back many years ago (Önder et al., 1982, 1986; Tezcan et al., 2013a). In these studies, species of economic significance have often been addressed in terms of their biology (İyriboz, 1941; Nizamlıoğlu, 1952, 1954, 1955; Unat, 1952; Akuğur, 1956; Bodenheimer, 1958; Birkardeşler, 1971b; Özdem & Kılınçer, 2008), damage (Nizamlıoğlu, 1961-1962; İren & Ahmed, 1973; Çalmaşur, 2007), fluctuations in population density (Zümreoğlu, 1986; Tezcan et al., 2006b; Kök & Kasap, 2018), pesticide residues (Güvener et al., 1967; Otacı, 1973; Öden et al., 1959; Çelik & Durmuşoğlu, 2002), and management (Özkök, 1940; Gökmen, 1965; Birkardeşler, 1971a; Sezer, 1978; Zümreoğlu et al., 1981; Öncüer & Uzun, 1991; Aykaç & Kılıç, 1993-1994; Tezcan & Gülperçin, 2000; Ulusoy et al., 2001; Gökçe et al., 2003; Aslantaş et al., 2008; Özdem & Bozkurt, 2010; Balcı & Durmuşoğlu, 2011). Since the 1990s, species present in cherry orchards have been identified through studies conducted in various locations throughout Turkey, and they have been evaluated in terms of their harmfulness and usefulness (Çam, 1993; Ulu et al., 1995; Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998; Özder, 1999; Tezcan & Önder, 1999, 2003; Ulusoy et al., 1999; Çetin et al., 2001, 2008; Tezcan & Hava, 2001; Tezcan & Zeybekoğlu, 2001; Efe et al., 2002; Tezcan & Rejzek, 2002; Çınar et al., 2004; Aslan & Uygun, 2005; Özkan et al., 2005; Özcan, 2007; Özdem et al., 2007, 2010; Yıldırım et al., 2009; Ertop & Özpınar, 2010; Tezcan & Gülperçin, 2010; Tezcan, et al., 2010; Alaoğlu & Özcan, 2011; Ertop & Özpınar, 2011; Güler et al., 2011; Alaserhat et al., 2016; Çatal et al., 2018, 2020; Kaplan & Alaserhat, 2018; Kaplan, 2019; Kaçar & Koca, 2020; Çinkul

et al., 2021). Other than that, it has been specified in articles addressing the insect groups of different families that the revealed species are also present in the cherry orchards (Giray, 1974; Lodos et al., 1978, 2003; Lodos & Kalkandelen, 1980, 1981, 1986a, b; Lodos, 1984, 1986; Gülperçin & Önder, 1999; Aslan & Karaca, 2005; Civelek & Tezcan, 2005; Özgen et al., 2005; Bolu et al., 2007; Narmanlıoğlu & Güçlü, 2008; Özdemir & Güler, 2009; Anlaş et al., 2010; Güler et al., 2010; Daşcı & Güçlü, 2008; Tunç et al., 2012a, b; Karakaya, 2014; Şahin & Tezcan, 2014; Uzun et al., 2015; Kütük & Güçlü, 2016; Maya & Tezcan, 2018; Telli & Yiğit, 2019; Alaserhat & Güçlü, 2020).

A total of 555 species were identified in a study conducted in the early 2000s on the species present in cherry agroecosystems (Tezcan & Gülperçin, 2005). Considering the results of new research conducted since then, the increase in that number has attracted attention. In this respect, it has been thought to investigate the functions and interrelations of the species through addressing the insect groups at the level of orders and in phylogenetic order by addressing the studies conducted in Turkey in the last 80 years on species determined in cherry agroecosystems.

It has been intended to publish the results in a few sections, and a general evaluation regarding the whole fauna will be presented in the final part. As such, it will be possible to make a general evaluation of the insect fauna in the light of the findings obtained from the entomological studies conducted in the last 80 years on cherry agroecosystems in Turkey, and attention will be drawn to points that have to be searched in the future.

MATERIAL AND METHODS

In this study, publications arising from the results of research conducted at sweet cherry [*Prunus avium* Linnaeus, 1755], sour cherry [*Prunus cerasus* Linnaeus, 1753], and mahaleb cherry [*Prunus mahaleb* Linnaeus, 1753] [Rosales: Rosaceae] orchards, which are generally grown together, were examined, and the findings obtained were evaluated by the addition of the 40 years' field observations of the first author.

The information was categorized in order to prevent the increase in the article's page number. Within this scope, the evaluations regarding the following were presented as being standardized: agricultural production approaches adopted at orchards from where the species were collected / provinces from where the species were sampled / method(s) of sampling of the species / months of sampling of the species / food habits of the species / relationship of the species with the plants in the cherry agroecosystems, and its importance / presence and abundance of the species.

The insect groups were addressed at the level of orders and in phylogenetic order, and the sub-categories were presented in alphabetic order in this paper.

RESULTS

Orthoptera: Caelifera Acrididae

Dociostaurus maroccanus (Thunberg, 1815)

Pesticide-free sweet cherry orchards / Çanakkale / sweeping, beating / June-July / phytophagous / found on herbaceous plants in the world and the presence of this species

may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ertop & Özpınar, 2011].

**Orthoptera: Ensifera
Phaneropteridae**

***Phaneroptera nana* Fieber, 1853**

Pesticide-free sweet cherry orchards / Çanakkale / sweeping, beating / june-september / phytophagous / found on herbaceous plants, bushes and trees viz. apples, pears, quinces in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ertop & Özpınar, 2011].

***Poecilimon sanctipauli* Brunner von Wattenwyl, 1878**

Pesticide-free sweet cherry orchards / Çanakkale / sweeping, beating / may-july / phytophagous / found on herbaceous plants, bushes and trees viz. almonds, figs in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ertop & Özpınar, 2011].

**Dictyoptera: Isoptera
Rhinotermitidae**

***Reticulitermes lucifugus* (Rossi, 1792)**

Pesticide-free sweet cherry orchards / Çanakkale / sweeping, beating / may-june / phytophagous / found on rotten timber and old trees of citrus, oaks, birches, pines, grape vines in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ertop & Özpınar, 2011].

**Dictyoptera: Mantodea
Mantidae**

***Mantis religiosa* (Linnaeus, 1758)**

Pesticide-free sweet cherry orchards / Çanakkale / beating / may-september / zoophagous / occasionally. [Ertop & Özpınar, 2011].

**Dermaptera
Forficulidae**

***Forficula auricularia* Linnaeus, 1758**

Pesticide-free sweet cherry and sour cherry orchards / Adana, Bolu, Çanakkale, Diyarbakır, Erzincan, Isparta, İzmir, Manisa, Niğde, Tekirdağ / sweeping, beating, hibernation trap-bands / april-october / omnivorous / found on herbaceous plants, bushes and trees viz. almonds, figs in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995; Özder, 1999; Ulusoy et al., 1999; Aslan & Karaca, 2005; Tezcan & Kocarek, 2009; Tezcan et al., 2011; Kütük & Güçlü, 2016; Kaplan, 2019; Kaçar & Koca, 2020; Kaçar & Nishikawa, 2020].

***Forficula lurida* Fischer, 1853**

Organic and pesticide-free sweet cherry orchards / Bilecik, İzmir, Manisa / beating, pitfall traps, bait traps, hibernation trap-bands / april-october / omnivorous / found on herbaceous plants, bushes and trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Önder et al., 1999; Tezcan & Kocarek, 2009; Anlaş et al., 2010; Tezcan et al., 2011].

***Forficula smyrnensis* Serville, 1839**

Organic and pesticide-free sweet cherry and sour cherry orchards / Adana, Bolu, İzmir, Manisa / beating, pitfall traps, bait traps, hibernation trap-bands / april-october / phytophagous / found on herbaceous plants, bushes and trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Kocarek, 2009; Anlaş et al., 2010; Çatal et al., 2020; Kaçar & Koca, 2020; Kaçar & Nishikawa, 2020].

***Guanchia hincksi* (Burr, 1947)**

Organic and pesticide-free sweet cherry and sour cherry orchards / Bolu, İzmir, Manisa / beating, pitfall traps, bait traps, hibernation trap-bands / april-october / data deficient / found on herbaceous plants, bushes and trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Kocarek, 2009; Anlaş et al., 2010; Tezcan et al., 2011; Kaçar & Koca, 2020; Kaçar & Nishikawa, 2020].

Spongiphoridae

***Isolaboides kosswigi* (Burr, 1947)**

Pesticide-free sweet cherry orchards / Manisa / hibernation trap-bands / april-october / data deficient / found on herbaceous plants, bushes and trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Anlaş et al., 2010].

**Hemiptera: Heteroptera
Cimicomorpha: Cimicoidea
Anthocoridae**

***Anthocoris minki* Dohrn, 1860**

Organic sweet cherry orchards / Elazığ, Mardin / beating / may-july / zoophagous / occasionally. [Çınar et al., 2004].

***Anthocoris nemoralis* (Fabricius, 1794)**

Organic, integrated and pesticide-free sweet cherry, sour cherry and mahaleb cherry orchards / Ankara, Aydın, Erzincan, Erzurum, İzmir, Manisa, Tokat / beating / april-august / zoophagous / occasionally. [Çam, 1993; Ulu et al., 1995; Özbek et al., 1996; Tezcan & Önder, 1999, 2003; Özkan et al., 2005; Karakaya, 2014].

***Anthocoris sibiricus* Reuter, 1875**

Pesticide-free mahaleb cherry orchards / Tokat / beating / may-june / zoophagous / occasionally. [Çam, 1993].

***Dufouriellus ater* (Dufour, 1833)**

Organic and integrated sweet cherry orchards / İzmir / beating / june / zoophagous / occasionally. [Tezcan & Önder, 1999, 2003].

***Orius minutus* (Linnaeus, 1758)**

Organic, integrated and pesticide-free sweet cherry and sour cherry orchards / Artvin, Erzincan, Erzurum, İzmir, Kars, Manisa, Tokat / beating / april-august / zoophagous / occasionally. [Çam, 1993; Ulu et al., 1995; Özbek et al., 1996; Tezcan & Önder, 1999, 2003].

***Orius niger* (Wolff, 1811)**

Organic and pesticide-free sweet cherry orchards / Erzincan, İzmir, Kars / beating / may / zoophagous / occasionally. [Özbek et al., 1996; Tezcan & Önder, 2003].

***Temnostethus dacicus* (Puton, 1888)**

Pesticide-free sweet cherry, sour cherry and mahaleb cherry orchards / Erzurum, Kars, Tokat / beating / july-august / zoophagous / occasionally. [Çam, 1993; Özbek et al., 1996].

***Temnostethus reduvinus* (Herrich-Schäffer, 1850)**

Pesticide-free sweet cherry orchards / Artvin, Erzincan, Erzurum, Kars / beating / july-august / zoophagous / occasionally. [Özbek et al., 1996].

Nabidae

***Nabis capsiformis* Germar, 1838**

Integrated sweet cherry orchards / İzmir / light traps / july-september / zoophagous / occasionally. [Tezcan et al., 2010a].

***Nabis pseudoferus* Remane, 1949**

Integrated sweet cherry orchards / İzmir / light traps / july-september / zoophagous / occasionally. [Tezcan et al., 2010a].

***Nabis punctatus* A. Costa, 1847**

Organic and pesticide-free sweet cherry orchards / Diyarbakır, Erzincan, İzmir / sweeping / july-september / zoophagous / occasionally. [Tezcan & Önder, 2003; Kütük & Güçlü, 2016; Kaplan, 2019].

**Cimicomorpha: Miroidea
Miridae**

***Acrorrhinium conspersum* Noualhier, 1895**

Organic and integrated sweet cherry orchards / İzmir, Manisa / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995; Tezcan & Önder, 1999, 2003].

***Adelphocoris lineolatus* (Goeze, 1778)**

Integrated sweet cherry orchards / İzmir / light traps / june-september / phytophagous / found on a variety of crops including alfalfa, bean, cotton, peach, and strawberry crops in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / common, sometimes found in large numbers. [Tezcan et al., 2010a].

***Agnocoris rubicundus* (Fallén, 1807)**

Pesticide-free cherry orchards / Erzincan, Erzurum / beating / july-september / phytophagous / found on willow trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996].

***Attractotomus mali* (Meyer-Dür, 1843)**

Organic and integrated cherry orchards / İzmir, Kayseri / beating / june-july / phytozoophagous / found on apple trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Lodos et al. 2003; Tezcan & Önder, 1999, 2003].

***Campylomma diversicornis* Reuter, 1878**

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Campyloneura virgula* (Herrich-Schäffer, 1835)**

Pesticide-free sweet cherry and sour cherry orchards / Tokat / beating / july / zoophagous / occasionally. [Çam, 1993].

***Charagochilus gyllenhalli* (Fallén, 1807)**

Integrated sweet cherry orchards / İzmir / light traps / july / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2010a].

***Deraeocoris lutescens* (Schilling, 1837)**

Organic, integrated and pesticide-free sweet cherry, sour cherry and mahaleb cherry orchards / Adana, Erzincan, Erzurum, Iğdır, İzmir, Karaman, Manisa, Niğde, Tokat / beating / april-september / zoophagous / occasionally. [Çam, 1993; Özbek et al., 1996; Tezcan & Önder, 1999, 2003; Ulusoy et al., 1999; Lodos et al., 2003].

***Deraeocoris pallens pallens* (Reuter, 1904)**

Integrated sweet cherry orchards / İzmir / light traps / august-september / zoophagous / very occasionally. [Tezcan et al., 2010a].

***Deraeocoris rutilus* (Herrich-Schäffer, 1838)**

Organic and pesticide-free sweet cherry and mahaleb cherry orchards / İzmir, Tokat / beating / june-july / zoophagous / occasionally. [Çam, 1993; Tezcan & Önder, 2003].

***Deraeocoris schach* (Fabricius, 1781)**

Organic sweet cherry orchards / İzmir, Manisa / sweeping, beating, sticky yellow traps / may-june / zoophagous / occasionally. [Tezcan & Önder, 2003].

***Deraeocoris serenus* (Douglas & Scott, 1868)**

Organic, integrated and pesticide-free sweet cherry orchards / Erzincan, Erzurum, İzmir, Manisa / beating, light traps, sticky yellow traps / june-august / zoophagous / occasionally. [Özbek et al., 1996; Tezcan & Önder, 1999, 2003; Tezcan et al., 2010a].

***Deraeocoris trifasciatus* (Linnaeus, 1767)**

Pesticide-free mahaleb cherry orchards / Tokat / beating / june / zoophagous / very occasionally. [Çam, 1993].

***Ectagela guttata* Schmidt, 1939**

Organic and integrated sweet cherry orchards / İzmir / beating / july-september / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan & Önder, 1999, 2003].

***Halodapus suturalis* (Herrich-Schäffer, 1837)**

Integrated sweet cherry orchards / İzmir / light traps / august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2010a].

***Isometopus mirificus* Mulsant & Rey, 1879**

Organic and integrated sweet cherry orchards / İzmir, Manisa / beating, sticky yellow traps / june-july / zoophagous / occasionally. [Tezcan & Önder, 1999, 2003].

***Lepidargyrus ancorifer* (Fieber, 1858)**

[Syn.: *Psallus ancorifer* (Fieber, 1858)]

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Lygus pratensis* (Linnaeus, 1758)**

[Syn.: *Exolygus pratensis* (Linnaeus, 1758)]

Integrated sweet cherry orchards / İzmir / light traps / june-september / phytophagous / found on a variety of crops including alfalfa, clover, potato, cereals and sugarbeet crops in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / common, sometimes found in large numbers. [Tezcan et al., 2010a].

***Macrotylus paykullii* (Fallén, 1807)**

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Orthotylus nassatus* (Fabricius, 1787)**

Organic, integrated and pesticide-free sweet cherry, sour cherry and mahaleb cherry orchards / İzmir, Manisa, Tokat / beating / june-august / phytozoophagous / found on trees, like lime, oak, and ash in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Çam, 1993; Ulu et al., 1995; Tezcan & Önder, 1999, 2003].

***Phytocoris insignis* Reuter, 1876**

Integrated sweet cherry orchards / İzmir / light traps / july-september / phytophagous / found on oak, heather and restharrow in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010a].

***Phytocoris pinihalepensis* Lindberg, 1948**

Integrated sweet cherry orchards / İzmir / light traps / july-september / phytophagous / found on pine trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010a].

***Pilophorus clavatus* (Linnaeus, 1767)**

Pesticide-free sweet cherry, sour cherry and mahaleb cherry orchards / Tokat / beating / june-july / phytozoophagous / found on trees, like alder, birch, oak, poplar, willow in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Çam, 1993].

***Pilophorus perplexus* Douglas & Scott, 1875**

Integrated and pesticide-free sweet cherry, sour cherry and mahaleb cherry orchards / İzmir, Tokat / beating / june-august / phytozoophagous / found on oak and other deciduous trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Çam, 1993; Tezcan & Önder, 1999].

***Pleuroxonotus longicornis* (Reuter, 1900)**

[Syn.: *Pronototropis longicornis* Reuter 1900]

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Taylorilygus apicalis* (Fieber, 1861)**

[Syn.: *Taylorilygus pallidulus* Blanchard, 1852]

Integrated sweet cherry orchards / İzmir, Manisa / beating / june-july / phytophagous / found on willow trees and asteraceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995].

**Cimicomorpha: Reduioidea
Reduviidae**

***Nagusta goedelii* (Kolenati, 1857)**

Organic, integrated and pesticide-free sweet cherry, sour cherry and mahaleb cherry orchards / Artvin, Diyarbakır, Elazığ, Erzincan, Erzurum, Iğdır, İzmir, Kars, Manisa, Mardin, Tokat / beating, sticky yellow traps / april-august / zoophagous / occasionally. [Çam, 1993; Ulu et al., 1995; Özbek et al., 1996; Tezcan & Önder, 1999, 2003; Çınar et al., 2004; Kaplan, 2019].

***Peirates hybridus* (Scopoli, 1763)**

Integrated sweet cherry orchards / İzmir / light traps / july-august / zoophagous / occasionally. [Tezcan et al., 2010a].

***Rhynocoris punctiventris* (Herrich-Schäffer, 1846)**

Organic sweet cherry orchards / İzmir, Manisa / sweeping, beating / june / zoophagous / occasionally. [Tezcan & Önder, 2003].

**Cimicomorpha: Tingoidea
Tingidae**

***Monosteira lobulifera* Reuter, 1888**

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Monosteira unicostata* (Mulsant & Rey, 1852)**

Organic sweet cherry orchards / Elazığ, Mardin / beating / april-august / phytophagous / found on host leaves of various fruit trees, such as apple, almond, pear, poplar and willow in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / common, sometimes found in large numbers. [Çınar et al., 2004].

***Physatocheila confinis* Horváth, 1905**

Pesticide-free sweet cherry and sour cherry orchards / Erzincan, Erzurum, Iğdır, Kars / beating / may-august / phytophagous / found on host leaves of various fruit trees, such as almond, pear and oaks in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998].

***Physatocheila dumetorum* (Herrich-Schäffer, 1838)**

Pesticide-free sweet cherry and sour cherry orchards / Tokat / beating / february-august / phytophagous / found on host leaves of various fruit trees, such as almond, pear, oaks including sweet cherries and sour cherries in the world / occasionally. [Çam, 1993].

***Stephanitis pyri* (Fabricius, 1775)**

Organic, integrated and pesticide-free sweet cherry, sour cherry and mahaleb cherry orchards / Adana, Ankara, Bolu, Çanakkale, Diyarbakır, Elazığ, Erzincan, Erzurum, İzmir, Kars, Manisa, Mardin, Niğde, Tekirdağ, Tokat / sweeping, beating, light trap, sticky yellow traps / april-october / phytophagous / found on host leaves of various deciduous trees and shrubs, such as almond, pear and oaks in the world / common, sometimes found in large numbers. [Nizamlioğlu, 1957, 1961-1962; Çam, 1993; Ulu et al., 1995; Özbek et al., 1996; Gülperçin & Önder, 1999; Özder, 1999; Ulusoy et al., 1999; Tezcan & Önder, 1999,

2003; Çınar et al., 2004; Özkan et al., 2005; Tezcan & Gülperçin, 2005; Tezcan et al., 2010a; Ertop & Özpinar, 2011; Çatal et al., 2018, 2020; Kaplan & Alaserhat, 2018; Kaplan, 2019; Kaçar & Koca, 2020].

Pentatomomorpha: Aradoidea

Aradidae

***Aradus acutus* Say, 1832**

Pesticide-free sweet cherry orchards / Nearctic species / presence in Çanakkale area is doubtful. [Ertop & Özpinar, 2011].

Pentatomomorpha: Coreoidea

Alydidae

***Alydus calcaratus* (Linnaeus, 1758)**

Pesticide-free sour cherry orchards / Erzurum / beating / july / phytophagous / found on fabaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996].

Coreidae

***Centrocoris variegatus* Kolenati, 1845**

Integrated sweet cherry orchards / İzmir, Manisa / beating, light traps / june-august / phytophagous / found on asteraceous, apiaceous, fabaceous plants, oak, pistachio in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995; Tezcan & Önder, 1999; Tezcan et al., 2010a].

***Coreus marginatus marginatus* (Linnaeus, 1758)**

Integrated sweet cherry orchards / İzmir / light traps / august-september / phytophagous / found on asteraceous, polygonaceous, rosaceous viz]. raspberries, gooseberries and blackcurrants plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010a].

***Gonocerus acuteangulatus* (Goeze, 1778)**

Organic, integrated and pesticide-free sweet cherry, sour cherry and mahaleb cherry orchards / İzmir, Manisa, Tekirdağ, Tokat / beating / august-september / phytophagous / found on common box, hazel, pistachio trees and some rosaceous plants viz. *Rosa canina* and *Crataegus* spp. in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Çam, 1993; Ulu et al., 1995; Özder, 1999; Tezcan & Önder, 1999, 2003].

Rhopalidae

***Corizus hyoscyami* (Linnaeus, 1758)**

Integrated and pesticide-free sweet cherry orchards / Erzincan, İzmir, Manisa / beating / july-august / phytophagous / found on weeds and chestnut trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995; Özbek et al., 1996].

***Rhopalus parumpunctatus* Schilling, 1829**

Integrated sweet cherry orchards / İzmir, Manisa / beating / july-august / phytophagous / found on asteraceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995].

Pentatomomorpha: Lygaeoidea
Lygaeidae

***Arocatus longiceps* Stål, 1872**

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Beosus quadripunctatus* (Muller, 1766)**

Integrated sweet cherry orchards / İzmir / light traps / july-august / phytophagous / sweet cherry trees are not a host of this species in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2010a].

***Eremocoris fenestratus* (Herrich-Schäffer, 1839)**

Integrated sweet cherry orchards / İzmir / light traps / august / phytophagous / sweet cherry trees are not a host of this species in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2010a].

***Geocoris ater* (Fabricius, 1787)**

Organic sweet cherry orchards / Manisa / sticky yellow traps / may-june / zoophagous / occasionally. [Tezcan & Önder, 2003].

***Geocoris pallidipennis* (A. Costa, 1843)**

Organic sweet cherry orchards / İzmir / sticky yellow traps / april-august / zoophagous / occasionally. [Tezcan & Önder, 2003].

***Graptostethus servus* Fabricius, 1787**

Integrated sweet cherry orchards / İzmir / light traps / august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2010a].

***Heterogaster urticae* (Fabricius, 1775)**

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Horvathiolus superbus* (Pollich, 1781)**

[Syn.: *Melanocoryphus superbus* (Pollich, 1781)]

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Icus angularis* Fieber, 1861**

Integrated sweet cherry orchards / İzmir / light traps / august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2010a].

***Lamprodema maura* (Fabricius, 1803)**

Integrated sweet cherry orchards / İzmir / light traps / july / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2010a].

***Lygaeosoma sardeum* Spinola, 1837**

[Syn.: *Lygaeosoma reticulatum* Herrich-Schäffer, 1839]

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Lygaeus equestris* (Linnaeus, 1758)**

Organic, integrated and pesticide-free sweet cherry orchards / Adana, İzmir, Manisa, Niğde / beating / july / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999, 2003; Ulusoy et al., 1999].

***Macroplax fasciata* (Herrich-Schäffer, 1835)**

Pesticide-free sour cherry orchards / Erzincan / beating / may / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996].

***Metopoplax origani* (Kolenati, 1845)**

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Nysius cymoides* (Spinola, 1837)**

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Nysius graminicola graminicola* (Kolenati, 1845)**

Integrated sweet cherry orchards / İzmir / light trap / august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010a].

***Nysius helveticus* (Herrich-Schäffer, 1850)**

Integrated sweet cherry orchards / İzmir / light trap / august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010a].

***Oxycarenus pallens* (Herrich-Schäffer, 1850)**

Pesticide-free sweet cherry and sour cherry orchards / Erzincan / beating / may-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996].

***Paromius gracilis* (Rambur, 1839)**

Integrated sweet cherry orchards / İzmir / light trap / july-september / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010a].

***Remaudiereana annulipes* (Baerensprung, 1859)**

Integrated sweet cherry orchards / İzmir / light trap / august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2010a].

***Scolopostethus pictus* (Schilling, 1829)**

Integrated sweet cherry orchards / İzmir / light trap / august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2010a].

***Spilostethus pandurus* (Scopoli, 1763)**

[Syn.: *Lygaeus pandurus* (Scopoli, 1763)]

Organic and integrated sweet cherry orchards / İzmir, Manisa / beating / april-july / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999, 2003; Ulu et al., 1995].

Pentatomomorpha: Pentatomoidea

Cydnidae

***Geotomus elongatus* (Herrich-Schäffer, 1840)**

Integrated sweet cherry orchards / İzmir / light traps / august-september / phytophagous on plant roots / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2010a].

***Macroscytus brunneus* (Fabricius, 1803)**

Integrated sweet cherry orchards / İzmir / light traps / august / phytophagous on plant roots / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2010a].

***Ochetostethus nanus* (Herrich-Schäffer, 1834)**

Pesticide-free sour cherry orchards / Erzincan / beating / may-august / phytophagous on plant roots / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996].

Pentatomidae

***Acrosternum heegeri* Fieber, 1861**

Organic and integrated sweet cherry orchards / İzmir, Manisa / beating and light traps / july-august / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 2003; Tezcan et al., 2010a].

***Acrosternum millierei* (Mulsant & Rey, 1866)**

Organic and integrated sweet cherry orchards / İzmir, Manisa / beating and light traps / june-july / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 2003; Tezcan et al., 2010a].

***Apodiphus amygdali* (Germar, 1817)**

Organic, integrated and pesticide-free sweet cherry and sour cherry orchards / Artvin, Elazığ, Erzincan, Erzurum, Iğdır, İzmir, Kars, Manisa, Mardin / beating and light traps / june-october / phytophagous / sweet cherry and sour cherry trees are host of this species / common, sometimes found in large numbers. [Ulu et al., 1995; Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998; Tezcan & Önder, 1999, 2003; Özgen et al., 2005; Tezcan et al., 2010a].

***Carpocoris mediterraneus* Tamanini, 1958**

Pesticide-free sweet cherry orchards / Adana, Niğde / beating / may-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulusoy et al., 1999].

***Carpocoris pudicus* (Poda, 1761)**

Pesticide-free sweet cherry orchards / Mardin / beating / april / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özgen et al., 2005].

***Codophila varia* (Fabricius, 1787)**

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Dolycoris baccarum* (Linnaeus, 1758)**

Organic, integrated and pesticide-free sweet cherry orchards / Adana, Elazığ, İzmir, Manisa, Tekirdağ, Niğde / beating, sweeping, light trap / july-august / phytophagous / very occasionally on cherry trees sucking the generative parts of plants. [Özder, 1999; Ulusoy et al., 1999; Tezcan & Önder, 1999, 2003; Özgen et al., 2005; Tezcan et al., 2010a].

***Eurydema ornata* (Linnaeus, 1758)**

Pesticide-free sweet cherry orchards / Çanakkale, Diyarbakır, İzmir / beating / may-june / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999; Ertop & Özpınar, 2011; Kaplan, 2019].

***Eysarcoris ventralis* (Westwood, 1837)**

[Syn.: *Eysarcoris inconspicuus* (Herrich-Schäffer, 1844)]

Integrated sweet cherry orchards / İzmir / beating, light trap / april-september / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999; Tezcan et al., 2010a].

***Graphosoma italicum* (Muller, 1766)**

Pesticide-free sweet cherry orchards / Kars / beating / may / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996].

***Holcogaster fibulata* (Germar, 1831)**

[Syn.: *Holcogaster exilis* Horváth, 1903]

Integrated sweet cherry orchards / İzmir / beating / july-august / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999].

***Holcostethus strictus strictus* (Fabricius, 1803)**

[Syn.: *Holcostethus vernalis* (Wolff, 1804)]

Integrated sweet cherry orchards / İzmir / beating, light trap / july-september / phytophagous / presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Önder, 1999; Tezcan et al., 2010a].

***Mustha spinosula* (Lefèbvre, 1831)**

Organic and integrated sweet cherry orchards / İzmir, Manisa / beating / may-july / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995; Tezcan & Önder, 1999, 2003].

***Nezara viridula* (Linnaeus, 1758)**

Organic, integrated and pesticide-free sweet cherry and sour cherry orchards / Adana, Artvin, Erzincan, Erzurum, Iğdır, İzmir, Kars, Manisa, Niğde / sweeping, beating, light trap / may-september / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998; Ulusoy et al., 1999; Tezcan & Önder, 2003; Tezcan et al., 2010; Çatal et al., 2020].

***Palomena prasina* (Linnaeus, 1761)**

Organic, integrated and pesticide-free sweet cherry orchards / İzmir, Manisa, Tokat / beating / april-august / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Çam, 1993; Ulu et al., 1995; Tezcan & Önder, 1999, 2003].

***Palomena viridissima* (Poda, 1761)**

Organic, integrated and pesticide-free sweet cherry, sour cherry and mahaleb cherry orchards / Adana, Afyonkarahisar, İzmir, Manisa, Mardin, Niğde / beating / april-august / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Lodos et al., 1978; Tezcan & Önder, 1999, 2003; Ulusoy et al., 1999; Özgen et al., 2005].

***Piezodorus lituratus* (Fabricius, 1794)**

Pesticide-free sweet cherry and sour cherry orchards / Artvin, Elazığ, Erzurum, Kars, Mardin / beating / april-august / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996; Özgen et al., 2005].

***Rhaphigaster nebulosa* (Poda, 1761)**

Integrated, organic and pesticide-free sweet cherry, sour cherry and mahaleb cherry orchards / Adana, Afyonkarahisar, Artvin, Aydın, Burdur, Erzincan, İzmir, Manisa, Mardin, Niğde, Tokat / beating, light trap / march-september / phytophagous / sweet cherry, sour cherry and mahaleb cherry trees are host of this species / occasionally on sweet cherry, sour cherry and mahaleb cherry trees sucking the generative parts of plants / [Lodos et al., 1978; Çam, 1993; Ulu et al., 1995; Özbek et al., 1996; Güçlü et al., 1998; Ulusoy et al., 1999; Tezcan & Önder, 1999, 2003; Özgen et al., 2005; Tezcan et al., 2010a].

Cicadomorpha: Cercopoidea

Aphrophoridae

***Aphrophora alni* (Fallén, 1805)**

Pesticide-free sweet cherry and sour cherry orchards / Adana, Artvin, Erzincan, Erzurum, Kars, Niğde / beating / july-august / phytophagous / found on bushes and on several species of trees, viz willows, birch, alder and poplar in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998; Ulusoy et al., 1999].

***Lepyronia coleoprata* (Linnaeus, 1758)**

Organic sweet cherry orchards / İzmir / beating / june / phytophagous / found on grasses in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Zeybekoğlu, 2001].

***Neophilaenus minor* (Kirschbaum, 1868)**

Organic sweet cherry orchards / Manisa / beating / june / phytophagous / found on grasses in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Zeybekoğlu, 2001].

***Philaenus signatus* Melichar, 1896**

Integrated sweet cherry orchards / İzmir, Manisa / beating / may-august / phytophagous / found on grasses in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995].

***Philaenus spumarius* (Linnaeus, 1758)**

Organic and pesticide-free sweet cherry and sour cherry orchards / Adana, Artvin, Erzincan, Erzurum, Iğdır, İzmir, Kars, Manisa, Niğde, Tekirdağ / beating, sweeping and sticky yellow traps / april-november / phytophagous / found on grasses, reed plants, herbs, olive trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / common but found in small numbers. [Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998; Özder, 1999; Ulusoy et al., 1999; Tezcan & Zeybekoğlu, 2001].

Cercopidae

***Cercopis intermedia* Kirschbaum, 1868**

Pesticide-free sweet cherry orchards / Tekirdağ / beating / april-june / phytophagous / found on ground vegetation in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özder, 1999].

Cicadomorpha: Cicadoidea

Cicadidae

***Cicada mordoganensis* Boulard, 1979**

Integrated sweet cherry and mahaleb cherry orchards / İzmir / light traps, hand picking / june-october / phytophagous / feeding on the roots of various plants and trees viz. olives, peaches, walnuts, poplars, figs in the world and sweet cherry and mahaleb cherry trees are among the host of this species / common, sometimes found in large numbers. [Lodos & Kalkandelen, 1981; Lodos, 1986; Tezcan et al., 2010b; Kaplan & Tezcan, 2011a, 2016c].

***Cicadatra adanai* Kartal, 1980**

Integrated sweet cherry and mahaleb cherry orchards / İzmir / hand picking / june-september / phytophagous / feeding on the roots of various plants and trees viz. olives, peaches in the world and sweet cherry and mahaleb cherry trees are among the host of this species / common but found in small numbers. [Lodos & Kalkandelen, 1981; Kaplan & Tezcan, 2011a, b].

***Cicadatra atra* (Oliver, 1790)**

Integrated sweet cherry orchards / İzmir / light traps, hand picking / june-august / phytophagous / feeding on the roots of various plants and trees viz. almonds, apples, pears in the world and sweet cherry trees are among the host of this species / occasionally. [Bodenheimer, 1958; Lodos & Kalkandelen, 1981; Tezcan et al., 2010b].

***Cicadatra hyalina* (Fabricius, 1798)**

Integrated sweet cherry and mahaleb cherry orchards / İzmir / hand picking / june-august / phytophagous / feeding on the roots of various plants and trees viz. olives, peaches in the world and sweet cherry and mahaleb cherry trees are among the host of this species / common but found in small numbers. [Lodos & Kalkandelen, 1981; Kaplan & Tezcan, 2011a, 2016b].

***Cicadatra platyptera* Fieber, 1876**

Integrated sweet cherry and mahaleb cherry orchards / İzmir / hand picking / june / phytophagous / feeding on the roots of various plants and trees viz. almonds, olives, peaches, figs in the world and sweet cherry and mahaleb cherry trees are among the host of this species / occasionally. [Lodos & Kalkandelen, 1981; Kaplan & Tezcan, 2011a, 2018a].

***Dimissalna dimissa* (Hagen, 1856)**

[Syn.: *Cicadetta dimissa* (Hagen, 1856)]

Integrated sweet cherry and mahaleb cherry orchards / İzmir / hand picking / may-july / phytophagous / feeding on the roots of various plants and trees viz. olives, oriental planes, oaks in the world and sweet cherry and mahaleb cherry trees are among the host of this species / occasionally. [Lodos & Kalkandelen, 1981; Kaplan & Tezcan, 2011a].

***Lyristes plebejus* (Scopoli, 1763)**

Organic and integrated sweet cherry and mahaleb cherry orchards / İzmir, Manisa / light traps, hand picking / june-august / phytophagous / feeding on the roots of various plants and trees viz. almonds, apples, peaches, pears, plums, poplars in the world and sweet cherry and mahaleb cherry trees are among the host of this species / common, sometimes found in large numbers. [Lodos & Kalkandelen, 1981; Lodos, 1986; Ulu et al., 1995; Tezcan et al., 2010b, 2013b; Kaplan & Tezcan, 2011a, 2017, 2018b, c].

Tibicinidae

***Cicadivetta tibialis* (Panzer, 1798)**

Integrated sweet cherry and mahaleb cherry orchards / İzmir / hand picking / may-august / phytophagous / feeding on the roots of various plants and trees viz. olives, peaches in the world and sweet cherry and mahaleb cherry trees are among the host of this species / occasionally. [Lodos & Kalkandelen, 1981; Kaplan & Tezcan, 2011a, 2014, 2016a].

Cicadomorpha: Membracoidea Cicadellidae

***Agallia consobrina* Curtis, 1833**

Organic sweet cherry orchards / İzmir, Manisa / sweeping, beating / june-july / phytophagous / found on herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2005, 2006b].

***Alebra albostrigella* (Fallén, 1826)**

Organic sweet cherry orchards / İzmir, Manisa / sweeping, beating, sticky yellow traps / may-august / phytophagous / found on trees viz. oaks and alders in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

***Anaceratagallia laevis* (Ribaut, 1935)**

Pesticide-free sweet cherry orchards / Elazığ, Mardin / sweeping, beating / may-september / phytophagous / found on herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Çınar et al., 2004].

***Anaceratagallia ribauti* (Ossiannilsson, 1938)**

[Syn.: *Agallia ribauti* Ossiannilsson, 1938]

Integrated sweet cherry orchards / İzmir / light traps / june-september / phytophagous / found on various herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010b].

***Anoplotettix fuscovenosus* (Ferrari, 1882)**

Organic sweet cherry orchards / Manisa / beating, sticky yellow traps / june-july / phytophagous / found on herbaceous plants and bushes in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

***Anoscopus albifrons* (Linnaeus, 1758)**

[Syn.: *Aphrodes albifrons* (Linnaeus, 1758)]

Organic sweet cherry orchards / İzmir, Manisa / sweeping, sticky yellow traps / may-november / phytophagous / found on poaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

***Anoscopus assimilis* (Signoret, 1879)**

[Syn.: *Aphrodes assimilis* (Signoret, 1879)]

Organic sweet cherry orchards / Manisa / sweeping, beating / june-september / phytophagous / found on poaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2005, 2006b].

Asymmetrasca decedens (Paoli, 1932)

Organic and integrated sweet cherry orchards / İzmir, Manisa / beating, sweeping and sticky yellow traps / april-november / phytophagous / found on trees, herbaceous crops and weeds in the world and sweet cherry trees are among the host of this species / very common, sometimes found in large numbers. [Ulu et al., 1995; Tezcan et al., 2005, 2006b].

Austroagallia avicula (Ribaut, 1935)

[Syn.: *Peragallia avicula* (Ribaut, 1935)]

Organic sweet cherry orchards / İzmir / beating / october / phytophagous / found on herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2005, 2006b].

Cicadella viridis (Linnaeus, 1758)

Organic and pesticide-free sweet cherry orchards / İzmir, Manisa / sweeping, beating and sticky yellow traps / may-october / phytophagous / found on the sap of various species of herbaceous plants and trees in the world and sweet cherry trees are among the host of this species / occasionally. [Lodos, 1986; Tezcan et al., 2005, 2006b].

Circulifer opacipennis (Lethierry, 1876)

Pesticide-free sweet cherry orchards / Elazığ, Mardin / sweeping, beating / may-september / phytophagous / found on herbaceous plants and bushes in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Çınar et al., 2004].

Doratura homophyla (Flor, 1861)

Organic sweet cherry orchards / İzmir, Manisa / sweeping, beating / june-november / phytophagous / found on various herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

Edwardsiana flavescens (Fabricius, 1794)

Pesticide-free sweet cherry orchards / Erzincan, Erzurum / beating / july-august / phytophagous / found on trees viz. common beech and common hornbeam in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998].

Edwardsiana rosae (Linnaeus, 1758)

Organic and pesticide-free sweet cherry orchards / Erzincan, İzmir, Manisa / sweeping, beating and sticky yellow traps / april-november / phytophagous / found on roses and trees viz. apples, pears, plums in the world and sweet cherry trees are among the host of this species / common. [Özbek et al., 1996; Güçlü et al., 1998; Tezcan et al., 2005, 2006b].

Edwardsiana salicicola (Edwards, 1885)

Organic sweet cherry orchards / İzmir, Manisa / beating and sticky yellow traps / may-august / phytophagous / found on willow trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

Empoasca decipiens Paoli, 1930

Organic, integrated and pesticide-free sweet cherry and sour cherry orchards / Artvin, Çanakkale, Diyarbakır, Erzincan, Erzurum, Iğdır, İzmir, Kars, Manisa / beating, sweeping and sticky yellow traps / april-november / phytophagous / found on trees, herbaceous crops and weeds in the world and sweet cherry and sour cherry trees are among the host of this species / very common, sometimes found in large numbers. [Ulu et al., 1995; Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998; Tezcan et al., 2005, 2006b; Ertop & Özpınar, 2011; Kaplan, 2019].

Empoasca vitis (Gothé, 1875)

Pesticide-free sweet cherry orchards / Adana, Niğde / beating / april-november / phytophagous / found on grapes and various plants in the world and sweet cherry trees are

among the host of this species / occasionally. [Lodos, 1986; Ulusoy et al., 1999; Çatal et al., 2020].

***Eupteryx pavlovskii* Zachvatkin, 1947**

Organic sweet cherry orchards / Manisa / beating / july / phytophagous / found on various herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2005, 2006b].

***Euscelidius mundus* (Haupt, 1927)**

Integrated sweet cherry orchards / İzmir / light traps / june-september / phytophagous / found on herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010b].

***Euscelis lineolatus* Brullé, 1832**

Organic sweet cherry orchards / İzmir, Manisa / sweeping, beating and sticky yellow traps / may-september / phytophagous / found on various herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

***Exitianus capicola* (Stål, 1855)**

Integrated sweet cherry orchards / İzmir / light traps / july-september / phytophagous / found on various grasses in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010b].

***Fieberiella florii* (Stål, 1864)**

Organic and integrated sweet cherry orchards / İzmir, Manisa / sweeping, beating, sticky yellow traps, light traps / may-november / phytophagous / found on ornamental shrubs and deciduous fruit trees in the world and sweet cherry trees are among the host of this species / common. [Tezcan et al., 2005, 2006b].

***Frutioidia bisignata* (Mulsant & Rey, 1855)**

Pesticide-free sour cherry orchards / Erzincan, Erzurum / beating / july-august / phytophagous / found on various trees and shrubs viz. almonds, apples, oaks in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998].

***Idiocerus herrichii* Kirschbaum, 1868**

Organic sweet cherry orchards / Manisa / sweeping / june / phytophagous / found on willows in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2005, 2006b].

***Idiocerus lituratus* (Fallén, 1806)**

Organic sweet cherry orchards / İzmir, Manisa / sweeping, beating / august-november / phytophagous / found on trees viz. poplars and willows in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

***Macropsis cerea* (Germar, 1837)**

Pesticide-free sour cherry orchards / Erzincan, Erzurum / beating / july / phytophagous / found on trees viz. poplars in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996].

***Macrosteles quadripunctulatus* (Kirschbaum, 1868)**

Integrated sweet cherry orchards / İzmir / light traps / june-september / phytophagous / found on various herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010b].

***Mocydia crocea* (Herrich-Schäffer, 1837)**

Organic sweet cherry orchards / Manisa / beating / august / phytophagous / found on various herbaceous plants in the world and the presence of this species may be related to

other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2005, 2006b].

***Nealiturus fenestratus* (Herrich-Schäffer, 1834)**

Organic and integrated sweet cherry orchards / İzmir / sticky yellow traps, light traps / july-october / phytophagous / found on asteraceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b, 2010b].

***Opsius stactogalus* Fieber, 1866**

Integrated sweet cherry orchards / İzmir / light traps / july-august / phytophagous / found on tamarisks in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010b].

***Osbornellus macchiaie* (Lindberg, 1948)**

Organic sweet cherry orchards / İzmir / beating, sticky yellow traps / may-october / phytophagous / found on various herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

***Phlepsius ornatus* (Perris, 1857)**

Organic and pesticide-free sweet cherry orchards / Elazığ, İzmir, Mardin / beating / november / phytophagous / found on potatoes and spurge in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Lodos & Kalkandelen, 1986a; Çınar et al., 2004; Tezcan et al., 2005, 2006b].

***Platymetopius rostratus* (Herrich-Schäffer, 1834)**

Integrated sweet cherry orchards / İzmir / light traps / july-september / phytophagous / found on various species of herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010b].

***Populicerus populi* (Linnaeus, 1761)**

[Syn.: *Idiocerus populi* (Linnaeus, 1761)]

Organic sweet cherry orchards / İzmir, Manisa / beating / october / phytophagous / found on poplar trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

***Psammotettix alienus* (Dahlbom, 1850)**

Organic and integrated sweet cherry orchards / İzmir / sweeping, beating, light traps / june-september / phytophagous / found on poaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b, 2010b].

***Psammotettix provincialis* (Ribaut, 1925)**

Organic sweet cherry orchards / İzmir, Manisa / sweeping, beating, sticky yellow traps / may-october / phytophagous / found on poaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

***Selenocephalus conspersus* (Herrich-Schäffer, 1834)**

Organic sweet cherry orchards / Manisa / sweeping, beating, sticky yellow traps / april-july / phytophagous / found on various herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2005, 2006b].

***Selenocephalus obsoletus* (Germar, 1817)**

[Syn.: *Selenocephalus griseus* (Fabricius, 1794)]

Organic sweet cherry orchards / İzmir / beating / july / phytophagous / found on various herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan et al., 2005, 2006b].

***Selenocephalus pallidus* Kirschbaum, 1868**

Integrated and pesticide-free sweet cherry orchards / İzmir, Tekirdağ / light traps / june-september / phytophagous / found on oak trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / common. [Lodos & Kalkandelen, 1986b; Özder, 1999; Tezcan et al., 2010b].

***Thamnotettix creticus* Dlabola, 1974**

Organic sweet cherry orchards / Manisa / sweeping, sticky yellow traps / may-june / phytophagous / found on various plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

***Thamnotettix zelleri* (Kirschbaum, 1868)**

Organic sweet cherry orchards / İzmir, Manisa / sweeping, beating, sticky yellow traps / may-june / phytophagous / found on oak trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2005, 2006b].

***Tremulicerus vitreus* (Fabricius, 1803)**

[Syn.: *Idiocerus vitreus* (Fabricius, 1803)]

Pesticide-free sweet cherry and sour cherry orchards / Erzurum, Kars / beating / july-september / phytophagous / common on trees viz. poplars in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996].

***Wagneripteryx germari* (Zetterstedt, 1840)**

[Syn.: *Aguriahana germari* Zetterstedt, 1840]

Integrated sweet cherry orchards / İzmir / light traps / july-september / phytophagous / found on the trees viz. pine and birch in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010b].

***Zygina flammigera* (Fourcroy, 1785)**

Pesticide-free sweet cherry and sour cherry orchards / Artvin, Erzincan, Erzurum, Kars / beating / july-september / phytophagous / found on a wide range of deciduous trees and other plants in the world and sweet cherry and sour cherry trees are among the host of this species / occasionally. [Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998].

***Zyginidia pullula* (Boheman, 1845)**

Integrated sweet cherry orchards / İzmir / light traps / july-september / phytophagous / found on poaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010b].

Membracidae

***Gargara genistae* (Fabricius, 1775)**

Integrated sweet cherry orchards / İzmir / light traps / july-september / phytophagous / found on common brooms and willows in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010b].

***Stictocephala bisonia* Kopp & Yonke, 1977**

[Syn.: *Ceresa bubalus* Fabricius, 1794]

Pesticide-free sweet cherry orchards / Adana, Niğde / beating / july-september / phytophagous / found on grasses and deciduous trees viz. apple, peach, ash, elm in the world and sweet cherry is among the main host plants / occasionally. [Lodos, 1986; Ulusoy et al., 1999].

Fulgoromorpha

Cixiidae

***Cixius cunicularius* (Linnaeus, 1767)**

Organic sweet cherry orchards / İzmir / sweeping / july / phytophagous / polyphagous and found on woody plants viz. alder, birch, elm trees, hazelnuts and others in the world and the

presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Zeybekoğlu, 2001].

***Cixius haupti* Dlabola, 1949**

Organic sweet cherry orchards / İzmir, Manisa / beating, bait traps, pitfall traps / may-october / phytophagous / found on shrubs and trees viz. pine in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Zeybekoğlu, 2001].

***Cixius nervosus* (Linnaeus, 1758)**

Organic sweet cherry orchards / İzmir, Manisa / beating, sweeping / august / phytophagous / found on shrubs and trees viz. oaks and common hornbeam in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan & Zeybekoğlu, 2001].

***Cixius pallipes* Fieber, 1876**

Pesticide-free sweet cherry orchards / Artvin, Erzincan, Iğdır / beating / may-august / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996; Güçlü et al., 1998].

***Cixius stigmaticus* (Germar, 1818)**

Organic sweet cherry orchards / İzmir, Manisa / beating, bait traps / june-november / phytophagous / found on shrubs and trees in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Zeybekoğlu, 2001].

***Hyalesthes ponticorum* Remane & Hoch, 1985**

Pesticide-free sour cherry orchards / Erzurum, Kars / beating / april-august / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996].

***Reptalus quinquecostatus* (Dufour, 1833)**

Pesticide-free sour cherry orchards / Erzurum / beating / july / phytophagous / found on shrubs, trees and weeds in the world and sour cherry trees are among the host of this species / occasionally. [Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998].

***Setapius apiculatus* (Fieber, 1876)**

Integrated sweet cherry orchards / İzmir / light traps / june-august / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010b].

***Tachycixius pilosus* (Olivier, 1791)**

Organic sweet cherry orchards / Manisa / sticky yellow traps / august / phytophagous / found on shrubs and trees viz. oaks and willows in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan & Zeybekoğlu, 2001].

Delphacidae

***Chloriona unicolor* (Herrich-Schäffer, 1835)**

[Syn.: *Chloriona canariensis* Lindberg, 1954]

Organic sweet cherry orchards / Manisa / beating / october / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan & Zeybekoğlu, 2001].

***Conomelus anceps* (Germar, 1821)**

Organic sweet cherry orchards / İzmir, Manisa / sweeping, sticky yellow traps / may-october / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Zeybekoğlu, 2001].

***Javesella pellucida* (Fabricius, 1794)**

Organic sweet cherry orchards / İzmir, Manisa / beating / july-august / phytophagous / found on grasses in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Zeybekoğlu, 2001].

***Laodelphax striatellus* (Fallén, 1826)**

Integrated sweet cherry orchards / İzmir / light traps / august-september / phytophagous / found on poaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010b].

***Stenocranus minutus* (Fabricius, 1787)**

Organic sweet cherry orchards / Manisa / beating / october / phytophagous / found on grasses in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan & Zeybekoğlu, 2001].

Dictyopharidae

***Dictyophara asiatica* Melichar, 1912**

Integrated sweet cherry orchards / İzmir, Manisa / beating / june-october / phytophagous / found on herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995].

***Dictyophara europaea* (Linnaeus, 1767)**

Organic, integrated and pesticide-free sweet cherry orchards / Artvin, Erzincan, Erzurum, Iğdır, İzmir, Kars, Manisa, Tekirdağ / sweeping, beating, sticky yellow traps, bait traps, pitfall traps, light traps / july-august / phytophagous / found on herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Lodos & Kalkandelen, 1980; Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998; Özder, 1999; Tezcan & Zeybekoğlu, 2001; Tezcan et al., 2010b].

***Dictyophara lindbergi* Metcalf, 1955**

Integrated sweet cherry orchards / İzmir, Manisa / beating / june-october / phytophagous / found on herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995].

Issidae

***Agalmatium bilobum* (Fieber, 1877)**

Organic sweet cherry orchards / İzmir, Manisa / sweeping, beating, bait traps, pitfall traps / may-november / phytophagous / found on cover crops, shrubs and trees viz. almond, apricot, plum, pear in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally, sometimes found in large numbers. [Tezcan & Zeybekoğlu, 2001].

***Agalmatium flavescens* (Olivier, 1791)**

Integrated and pesticide-free sweet cherry orchards / Adana, Diyarbakır, İzmir, Manisa, Niğde, Tekirdağ / beating / may-october / phytophagous / found on herbaceous plants, shrubs and trees viz. fig, olive, poplar, almond, tamarisk in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995; Özder, 1999; Ulusoy et al., 1999; Kaplan, 2019].

***Issus coleoptratus* (Fabricius, 1781)**

Organic sweet cherry orchards / İzmir, Manisa / sweeping, beating, bait traps, pitfall traps / may-october / phytophagous / found on shrubs and trees viz. common hazel and alder in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally, sometimes found in large numbers / occasionally. [Tezcan & Zeybekoğlu, 2001].

***Tshurtshurnella campestre* (Lindberg, 1948)**

Integrated sweet cherry orchards / İzmir / light traps / june-august / phytophagous / found on bushes and various species of herbaceous plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan et al., 2010].

Ricaniidae

Ricania hedenborgi Stål, 1865

Organic sweet cherry orchards / Manisa / beating / july / phytophagous / found on grasses and various plants in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tezcan & Zeybekoğlu, 2001].

Tettigometridae

Tettigometra atrata Fieber, 1872

Organic sweet cherry orchards / İzmir / beating / june / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan & Zeybekoğlu, 2001].

Tettigometra macrocephala Fieber, 1865

[Syn.: *Mitricephalus macrocephalus* (Fieber, 1865)]

Organic sweet cherry orchards / Manisa / beating / november / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Tezcan & Zeybekoğlu, 2001].

Sternorrhyncha: Aphidoidea

Aphididae

Aphis fabae Scopoli, 1763

Pesticide-free sweet cherry and sour cherry orchards / Aydın, Erzincan, Gümüşhane / shoot sampling / april-june / phytophagous / polyphagous, the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Karakaya, 2014; Alaserhat & Güçlü, 2020].

Aphis gossypii Glover, 1877

Pesticide-free sour cherry orchards / Aydın / shoot sampling / april-june / phytophagous, polyphagous, the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Karakaya, 2014].

Aphis spiraeicola Patch, 1914

Pesticide-free sweet cherry orchards / Erzincan, Gümüşhane / shoot sampling / april-june / phytophagous, polyphagous, the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Alaserhat & Güçlü, 2020].

Brachycaudus cardui (Linnaeus, 1758)

Pesticide-free sweet cherry orchards / Adana, Erzincan, Gümüşhane, Niğde / shoot sampling / april-june / phytophagous, polyphagous, sweet cherry is among the host plants / occasionally. [Lodos, 1986; Güçlü et al., 1998; Ulusoy et al., 1999; Alaserhat & Güçlü, 2020].

Brachycaudus helichrysi (Kaltenbach, 1843)

Pesticide-free sweet cherry and sour cherry orchards / Aydın, Erzincan, Gümüşhane / shoot sampling / april-may / phytophagous, polyphagous, sweet cherry is among the host plants / occasionally. [Lodos, 1986; Özbek et al., 1996; Güçlü et al., 1998; Karakaya, 2014; Alaserhat & Güçlü, 2020].

Hyalopterus pruni (Geoffroy, 1762)

Pesticide-free and integrated sweet cherry and sour cherry orchards / Adana, Ankara, Artvin, Erzincan, Erzurum, Gümüşhane, Iğdır, Kars, Niğde / shoot sampling / may-august / phytophagous, polyphagous, sweet cherry is among the host plants / common. [Lodos, 1986; Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998; Ulusoy et al., 1999; Özkan et al., 2005; Alaserhat et al., 2016; Alaserhat & Güçlü, 2020].

Myzus cerasi (Fabricius, 1775)

Organic, pesticide-free and integrated sweet cherry, sour cherry and mahaleb cherry orchards / Adana, Ankara, Artvin, Aydın, Bolu, Çanakkale, Diyarbakır, Elazığ, Erzincan, Erzurum, Gümüşhane, Iğdır, Isparta, İzmir, Kahramanmaraş, Karaman, Mardin, Niğde, Tekirdağ / shoot sampling / may-august / phytophagous, polyphagous, sweet cherry is among the main host plants / common. [Giray, 1974; Erkin, 1983; Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998; Özder, 1999; Ulusoy et al., 1999; Çınar et al., 2004; Aslan &

Karaca, 2005; Aslan & Uygun, 2005; Özkan et al., 2005; Tezcan et al., 2006c; Özcan, 2007; Narmanlıoğlu & Güçlü, 2008; Özdem et al., 2010; Daşcı & Güçlü, 2008; Ertop & Özpınar, 2011; Karakaya, 2014; Küçük & Güçlü, 2016; Çatal et al., 2018, 2020; Kaplan & Alaserhat, 2018; Kök & Kasap, 2018; Kaplan, 2019; Alaserhat et al., 2016; Alaserhat & Güçlü, 2020; Kaçar & Koca, 2020].

***Myzus lythri* (Schrank, 1801)**

Pesticide-free sweet cherry and mahaleb cherry orchards / Erzurum, İzmir / shoot sampling / april-june / phytophagous, polyphagous, mahaleb cherry is among the main host plants / occasionally. [Erkin, 1983; Narmanlıoğlu & Güçlü, 2008].

***Myzus persicae* Sulzer, 1776**

Pesticide-free and integrated sweet cherry and sour cherry orchards / Adana, Ankara, Bolu, Çanakkale, Erzincan, Gümüşşane, Kahramanmaraş, Niğde / shoot sampling / april-june / phytophagous, polyphagous, sweet cherry is among the main host plants / common. [Giray, 1974; Ulusoy et al., 1999; Aslan & Uygun, 2005; Özkan et al., 2005; Ertop & Özpınar, 2011; Küçük & Güçlü, 2016; Alaserhat et al., 2016; Alaserhat & Güçlü, 2020; Çatal et al., 2020; Kaçar & Koca, 2020].

Sternorrhyncha: Coccoidea Coccidae

***Parthenolecanium corni* (Bouché, 1844)**

Pesticide-free sweet cherry orchards / Adana, Niğde / shoot sampling / may-july / phytophagous / found on shrubs and deciduous trees viz. elm and stone fruits in the world and sweet cherry is among the main host plants / occasionally. [Ulusoy et al., 1999].

***Sphaerolecanium prunastri* (Boyer de Fonscolombe, 1834)**

Pesticide-free sweet cherry and sour cherry orchards / Adana, Artvin, Erzincan, Erzurum, Iğdır, Kars, Niğde / shoot sampling / may-july / phytophagous / found on stone fruits viz. plum and peach in the world and sweet cherry is among the main host plants / occasionally. [Özbek et al., 1996; Güçlü et al., 1998; Ulusoy et al., 1999].

Diaspididae

***Diaspidiotus perniciosus* (Comstock, 1881)**

[Syn.: *Quadraspidiotus perniciosus* (Comstock, 1881)]

Pesticide-free and integrated sweet cherry and sour cherry orchards / Adana, Ankara, Niğde / shoot sampling / june-october / phytophagous / found on bushes and deciduous trees viz. apples, roses, pyracanthas, cotoneasters in the world and sweet cherry is among the main host plants / occasionally. [Lodos, 1986; Ulusoy et al., 1999; Özkan et al., 2005].

***Lepidosaphes ulmi* (Linnaeus, 1758)**

Pesticide-free sweet cherry orchards / Erzincan, Tekirdağ / shoot sampling / april-june / phytophagous / found on trees and woody plants viz. apples, pears, plums, peaches, apricots, mulberries in the world and sweet cherry is among the main host plants / occasionally. [Özder, 1999; Alaserhat et al., 2016].

***Melanaspis inopinata* (Leonardi, 1913)**

Pesticide-free sweet cherry orchards / Adana / shoot sampling / june-october / phytophagous / found on bushes and deciduous trees viz. apples, pears, apricots, poplars, willows, elms in the world and sweet cherry is among the main host plants / occasionally. [Çatal et al., 2020].

***Mercetaspis halli* (Green, 1923)**

[Syn.: *Nilotaspis halli* (Green, 1923)]

Pesticide-free sweet cherry orchards / Adana, Çanakkale, Niğde / shoot sampling / june-october / phytophagous / found on trees and woody plants viz. almonds, apricots, plums in the world and sweet cherry is among the main host plants / occasionally. [Ulusoy et al., 1999; Ertop & Özpınar, 2011].

***Parlatoria oleae* (Colvee, 1880)**

Integrated and pesticide-free sweet cherry orchards / Adana, İzmir, Manisa, Niğde / shoot sampling / june-october / phytophagous / found on trees and woody plants viz. olives, apples, plums, peach in the world and sweet cherry is among the main host plants / occasionally. [Ulu et al., 1995; Ulusoy et al., 1999].

Pseudococcidae

***Phenacoccus aceris* (Signoret, 1875)**

Pesticide-free sweet cherry orchards / Adana / shoot sampling / may-july / phytophagous / polyphagous on shrubs and trees viz. plum, apricot, birch, chestnut, maple in the world and sweet cherry is among the main host plants / occasionally. [Ulusoy et al., 1999; Telli & Yiğit, 2019; Çatal et al., 2020].

Sternorrhyncha: Psylloidea

Homotomidae

***Homotoma ficus* (Linnaeus, 1758)**

Integrated sweet cherry orchards / İzmir, Manisa / beating / june-october / phytophagous / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Ulu et al., 1995].

Psyllidae

***Cacopsylla mali* (Schmidberger, 1836)**

Pesticide-free sour cherry orchards / Erzincan, Erzurum / beating / april-may / phytophagous / found on trees viz. apple and hawthorn in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998].

Thysanoptera: Terebrantia

Aeolothripidae

***Aeolothrips collaris* Priesner, 1919**

Pesticide-free sweet cherry orchards / Isparta, İzmir / brushing from flowers / april / zoophagous / flowers / occasionally. [Şahin & Tezcan, 2014; Uzun et al., 2015].

***Aeolothrips ericae* Bagnall, 1920**

Pesticide-free sweet cherry orchards / Balıkesir / brushing from flowers / april / zoophagous / flowers / very occasionally. [Çinkul, 2020].

***Aeolothrips fasciatus* (Linnaeus, 1758)**

Pesticide-free sweet cherry orchards / İzmir, Balıkesir / brushing from flowers / april / zoophagous / flowers / occasionally. [Şahin & Tezcan, 2014; Çinkul, 2020].

***Aeolothrips gloriosus* Bagnall, 1914**

Pesticide-free sweet cherry orchards / Balıkesir, Denizli, İzmir / brushing from flowers / april / zoophagous / flowers / occasionally. [Şahin & Tezcan, 2014; Maya & Tezcan, 2018; Çinkul, 2020].

***Aeolothrips intermedius* Bagnall, 1934**

Pesticide-free sweet cherry and sour cherry orchards / Balıkesir, Denizli, Isparta, İzmir, Muğla / beating, brushing from flowers / april-may / phytozoophagous / flowers / occasionally. [Tunç et al., 2012b; Şahin & Tezcan, 2014; Uzun et al., 2015; Maya & Tezcan, 2018; Çinkul, 2020].

***Aeolothrips linarius* Priesner, 1948**

Pesticide-free sweet cherry orchards / Denizli / brushing from flowers / april / zoophagous / flowers, fruits, leaves / occasionally. [Maya & Tezcan, 2018].

***Aeolothrips priesneri* Knechtel, 1923**

Pesticide-free sweet cherry orchards / Balıkesir / brushing from flowers / april / zoophagous / flowers / very occasionally. [Çinkul, 2020].

***Melanthrips fuscus* (Sulzer, 1776)**

Pesticide-free sweet cherry orchards / Denizli, Isparta, İzmir / brushing from flowers / april / palyniphagous, nectarophagous / flowers / occasionally. [Şahin & Tezcan, 2014; Uzun et al., 2015; Maya & Tezcan, 2018].

***Melanthrips pallidior* Priesner, 1919**

Pesticide-free sweet cherry orchards / Isparta, İzmir / brushing from flowers / april / palyniphagous, nectarophagous / flowers / occasionally. [Şahin & Tezcan, 2014; Uzun et al., 2015].

***Melanthrips rivnayi* Priesner, 1936**

Pesticide-free sweet cherry orchards / Balıkesir, İzmir / brushing from flowers / april / palyniphagous, nectarophagous / flowers / occasionally. [Şahin & Tezcan, 2014; Çinkul, 2020].

***Orothrips priesneri* (Titschack, 1958)**

Pesticide-free sweet cherry orchards / Afyonkarahisar, Isparta / beating, brushing from flowers / april-may / zoophagous / flowers / very occasionally. [Tunç et al., 2012a; Uzun et al., 2015].

Thripidae

***Chirothrips manicatus* Haliday, 1836**

Pesticide-free sweet cherry orchards / Denizli, Isparta / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Uzun et al., 2015; Maya & Tezcan, 2018].

***Frankliniella intonsa* (Trybom, 1895)**

Pesticide-free sweet cherry orchards / Isparta / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Uzun et al., 2015].

***Frankliniella occidentalis* (Pergande, 1895)**

Pesticide-free sweet cherry orchards / Balıkesir, Bolu, Denizli, Isparta, İzmir / brushing from flowers / april-june / phytozoophagous / flowers, fruits / polyphagous on a large number of fruit, vegetable and ornamental crops in the world and sweet cherry is among the main host plants / occasionally. [Şahin & Tezcan, 2014; Uzun et al., 2015; Maya & Tezcan, 2018; Çinkul, 2020; Kaçar & Koca, 2020].

***Mycterothrips albidicornis* (Knechtel, 1923)**

Pesticide-free sweet cherry orchards / Isparta / brushing from flowers / april / phytophagous / leaves / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Uzun et al., 2015].

***Mycterothrips salicis* (O. M. Reuter, 1879)**

Pesticide-free sweet cherry orchards / Isparta / brushing from flowers / april / phytophagous / leaves / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Uzun et al., 2015].

***Neohydatothrips gracilicornis* (Williams, 1916)**

Pesticide-free sweet cherry orchards / Denizli / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Maya & Tezcan, 2018].

***Oxythrips ajugae* Uzel, 1895**

Pesticide-free sweet cherry orchards / Afyonkarahisar, Balıkesir, İzmir / beating, brushing from flowers / april-may / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tunç et al., 2012a; Şahin & Tezcan, 2014; Çinkul, 2020].

***Scolothrips longicornis* Priesner, 1926**

Organic, integrated and pesticide-free sweet cherry orchards / Elazığ, İzmir, Mardin / brushing from flowers, beating / june-september / zoophagous / flowers, leaves / occasionally. [Çınar et al., 2004; Tezcan et al., 2006a, c; Kaplan & Alaserhat, 2018].

***Taeniothrips inconsequens* (Uzel, 1895)**

Pesticide-free sweet cherry and sour cherry orchards / Adana, Balıkesir, Denizli, Isparta, İzmir, Niğde / beating, brushing from flowers / april-june / phytophagous / flowers, fruits / found on grasses and deciduous trees viz. apple, peach, pear, plum in the world and sweet cherry is among the main host plants / common, sometimes found in large numbers. [Lodos, 1984; Ulusoy et al., 1999; Tunç et al., 2012b; Şahin & Tezcan, 2014; Uzun et al., 2015; Maya & Tezcan, 2018; Çatal et al., 2020; Çinkul, 2020].

***Tenothrips frici* (Uzel, 1895)**

Pesticide-free sweet cherry orchards / Balıkesir, Isparta / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Uzun et al., 2015; Çinkul, 2020].

***Thrips angusticeps* Uzel, 1895**

Pesticide-free sweet cherry orchards / Balıkesir, Isparta, İzmir, Muğla / beating/ brushing from flowers / april-may / phytophagous / flowers, fruits / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tunç et al., 2012b; Şahin & Tezcan, 2014; Uzun et al., 2015; Çinkul, 2020].

***Thrips atratus* Haliday, 1836**

Pesticide-free sweet cherry orchards / Denizli / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Maya & Tezcan, 2018].

***Thrips australis* (Bagnall, 1915)**

Pesticide-free sweet cherry orchards / Balıkesir / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Çinkul, 2020].

***Thrips dubius* Priesner, 1927**

Pesticide-free sweet cherry orchards / Balıkesir / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Çinkul, 2020].

***Thrips euphorbiae* Knechtel, 1923**

Pesticide-free sour cherry orchards / Balıkesir / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Çinkul, 2020].

***Thrips italicus* (Bagnall, 1926)**

Pesticide-free sweet cherry orchards / Burdur, Denizli, Isparta / beating, brushing from flowers / april / phytophagous / flowers / found on grasses, bushes and trees viz. citrus, hawthorn in the world and the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tunç et al., 2012b; Uzun et al., 2015; Maya & Tezcan, 2018].

***Thrips major* Uzel, 1895**

Pesticide-free sweet cherry orchards / Antalya, Balıkesir, İzmir, Muğla / beating, brushing from flowers / april / phytophagous, polyphagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tunç et al., 2012b; Şahin & Tezcan, 2014; Çinkul, 2020].

***Thrips meridionalis* (Priesner, 1926)**

[Syn.: *Taeniothrips meridionalis* Priesner, 1926]

Pesticide-free sweet cherry and sour cherry orchards / Afyonkarahisar, Balıkesir, Burdur, Denizli, Erzurum, Isparta, İzmir / beating, brushing from flowers / april-may / phytophagous / flowers / found on flowers of rosaceous trees viz. almond, apple, apricot, nectarine, pear, peach, plum in the world and sweet cherry and sour cherry are among the main host plants / common, sometimes found in large numbers. [Özbek et al., 1996; Güçlü et al., 1998; Hayat et al., 1998; Tunç et al., 2012a,b; Şahin & Tezcan, 2014; Uzun et al., 2015; Maya & Tezcan, 2018; Çinkul, 2020].

***Thrips minutissimus* Linnaeus, 1758**

Pesticide-free sweet cherry orchards / Balıkesir, Burdur, Isparta, Muğla / beating, brushing from flowers / april-may / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Tunç et al., 2012b; Uzun et al., 2015; Çinkul, 2020].

***Thrips pillichii* Priesner, 1924**

Pesticide-free sweet cherry orchards / Balıkesir / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Çinkul, 2020].

***Thrips simplex* (Morison, 1930)**

Pesticide-free sour cherry orchards / Balıkesir / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Çinkul, 2020].

***Thrips tabaci* Lindeman, 1889**

Pesticide-free sweet cherry and sour cherry orchards / Balıkesir, Denizli, Isparta, İzmir, Muğla / beating, brushing from flowers / april-may / phytozoophagous / flowers / found on a wide range of host plants including cereals, potatoes, glasshouse crops, many fruits and ornamental plants in the world and sweet cherry is among the main host plants / common, sometimes found in large numbers. [Tunç et al., 2012b; Şahin & Tezcan, 2014; Uzun et al., 2015; Maya & Tezcan, 2018; Çinkul, 2020].

Thysanoptera: Tubulifera

Phlaeothripidae

***Haplothrips aculeatus* (Fabricius, 1803)**

Pesticide-free sweet cherry orchards / Balıkesir, Denizli, İzmir / brushing from flowers / april / phytophagous / flowers, fruits / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Şahin & Tezcan, 2014; Maya & Tezcan, 2018; Çinkul, 2020].

***Haplothrips andresi* Priesner, 1931**

Pesticide-free sweet cherry orchards / Balıkesir, İzmir / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Şahin & Tezcan, 2014; Çinkul, 2020].

***Haplothrips arenarius* Priesner, 1920**

Pesticide-free sweet cherry orchards / Balıkesir / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Çinkul, 2020].

***Haplothrips bolacophilus* Priesner, 1938**

Pesticide-free sweet cherry orchards / Denizli, İzmir / brushing from flowers / april / phytophagous / flowers, fruits / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Şahin & Tezcan, 2014; Maya & Tezcan, 2018].

***Haplothrips distinguendus* (Uzel, 1895)**

Pesticide-free sweet cherry orchards / Balıkesir, İzmir / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Şahin & Tezcan, 2014; Çinkul, 2020].

***Haplothrips globiceps* (Bagnall, 1934)**

Pesticide-free sweet cherry orchards / İzmir / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Şahin & Tezcan, 2014].

***Haplothrips minutus* (Uzel, 1895)**

Pesticide-free sweet cherry orchards / Balıkesir / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Çinkul, 2020].

***Haplothrips reuteri* (Karny, 1907)**

Pesticide-free sweet cherry orchards / Afyonkarahisar, Antalya, Balıkesir, Burdur, Denizli, Erzurum, Isparta, İzmir / beating, brushing from flowers / april-june / phytophagous / flowers, fruits, leaves / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / common. [Özbek et al., 1996; Güçlü et al., 1998; Tunç et al., 2012a,b; Şahin & Tezcan, 2014; Uzun et al., 2015; Maya & Tezcan, 2018; Çinkul, 2020].

***Haplothrips tritici* (Kurdjumov, 1912)**

Pesticide-free sweet cherry orchards / Isparta / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / occasionally. [Uzun et al., 2015].

***Neoheegeria verbasci* (Osborn, 1896)**

Pesticide-free sweet cherry orchards / Denizli, İzmir / brushing from flowers / april / phytophagous / flowers / the presence of this species may be related to other hosts in cherry agroecosystems or may be travelers from areas adjacent to orchards / very occasionally. [Şahin & Tezcan, 2014; Maya & Tezcan, 2018].

A general evaluation on insect fauna of cherry agroecosystems of Turkey will be made at the end of this article series, and the number of taxa for each category presented in this paper are given in Table 1.

Table 1. Status of the listed species according to taxonomic categories.

Order	Suborder or infraorder / superfamily	Family	Total number of genera	Total number of species / subspecies	Total
Orthoptera	Caelifera	Acrididae	1	1	3
Orthoptera	Ensifera	Phaneropteridae	2	2	
Dictyoptera	Isoptera	Rhinotermitidae	1	1	
Dictyoptera	Mantodea	Mantidae	1	1	2
Dermaptera		Forficulidae	2	4	
Dermaptera		Spongiphoridae	1	1	5
Hemiptera	Cimicomorpha: Cimicoidea	Anthocoridae	4	8	
	Cimicomorpha: Cimicoidea	Nabidae	1	3	199
	Cimicomorpha: Miroidea	Miridae	19	26	
	Cimicomorpha: Reduvidae	Reduviidae	3	3	
	Cimicomorpha: Tingioidea	Tingidae	3	5	
	Pentatomomorpha: Aradoidea	Aradidae	1	1	
	Pentatomomorpha: Coreoidea	Alydidae	1	1	
	Pentatomomorpha: Coreoidea	Coreidae	3	3	
	Pentatomomorpha: Coreoidea	Rhopalidae	2	2	
	Pentatomomorpha: Lygaeoidea	Lygaeidae	19	22	
	Pentatomomorpha: Pentatomoidea	Cydnidae	3	3	
	Pentatomomorpha: Pentatomoidea	Pentatomidae	15	18	
	Cicadomorpha: Cercopoidea	Aphrophoridae	4	5	
	Cicadomorpha: Cercopoidea	Cercopidae	1	1	
	Cicadomorpha: Cicadoidea	Cicadidae	4	7	
	Cicadomorpha: Cicadoidea	Tibicinidae	1	1	
	Cicadomorpha: Membracoidea	Cicadellidae	35	45	
	Cicadomorpha: Membracoidea	Membracidae	2	2	
	Fulgoromorpha	Cixiidae	5	9	
	Fulgoromorpha	Delphacidae	5	5	
	Fulgoromorpha	Dityopharidae	1	3	
	Fulgoromorpha	Issidae	3	4	
	Fulgoromorpha	Ricaniidae	1	1	
	Fulgoromorpha	Tettigometridae	1	2	
	Sternorrhyncha: Aphidoidea	Aphididae	4	9	
	Sternorrhyncha: Coccoidea	Coccidae	2	2	
	Sternorrhyncha: Coccoidea	Diaspididae	5	5	
	Sternorrhyncha: Coccoidea	Pseudococcidae	1	1	
	Sternorrhyncha: Psylloidea	Homotomidae	1	1	
	Sternorrhyncha: Psylloidea	Psyllidae	1	1	
Thysanoptera	Terebrantia	Aeolothripidae	3	11	43
	Terebrantia	Thripidae	9	22	
	Tubulifera	Phlaeothripidae	2	10	
Total number of taxa			39	252	252

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