

NOTES ON THE BAIT TRAP COLLECTED CERAMBYCIDAE (COLEOPTERA) FAUNA IN POMEGRANATE ORCHARD OF HAVRAN (BALIKESIR PROVINCE), WESTERN TURKEY

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ABSTRACT: In this study, information is given on four species belonging to Cerambycidae (Coleoptera) fauna collected by bait traps in pomegranate orchard in Havran (Balıkesir province) of Western Turkey.

KEY WORDS: Cerambycidae, fauna, bait trap, Balıkesir, Turkey

Pomegranate (*Punica granatum* Linnaeus, 1758) (Mytales: Lythraceae) is an important fruit species with economic value in Turkish agriculture. Respectively, the Mediterranean, Aegean and Southeast Anatolia are the regions producing the most amount of pomegranate in Turkey (Kurt & Şahin, 2013). In the previous studies (Mart & Altın, 1992; Öztıp et al., 2002; Öztürk et al., 2005; Tezcan, 2008; Yıldırım & Başpınar, 2011; Okyar et al., 2014), important pests and natural enemies of pomegranate orchards of Turkey were evaluated.

This paper was prepared in order to supply an additional information on the biodiversity of these agroecosystems and material belonging to Cerambycidae family collected by bait traps in Havran (Balıkesir province) of Western Turkey were evaluated in this paper.

MATERIAL AND METHODS

This study was conducted in pomegranate (*Punica granatum*) orchard in Havran (Balıkesir province) of Western Turkey during the months of June - October in 2009. Cerambycids were collected by bait traps. A total of ten bait traps containing 100 ml wine, 900 ml water, 25 gr sugar and 25 ml vinegar per litre were hung for monitoring the insects. The traps were emptied at two-week intervals from June to October in 2009 (Okyar et al., 2014).

RESULTS

A total of four species belonging to two subfamilies namely Lepturinae and Cerambycinae were determined in this study.

LEPTURINAE Latreille, 1802**LEPTURINI Latreille, 1802*****Stictoleptura (Stictoleptura) cordigera* (Fuessly, 1775)*****Stictoleptura (Stictoleptura) cordigera cordigera* (Fuessly, 1775)**

Material examined: Balıkesir: Havran, 13.VII.2009, *Punica granatum*, bait trap, 1 specimen.

Hosts: Polyphagous in deciduous trees.

Provincial distribution in Turkey: Adana, Adıyaman, Aksaray, Ankara, Antalya, Artvin, Balıkesir, Bilecik, Bingöl, Bitlis, Bolu, Bursa, Çanakkale, Denizli, Erzurum, Gaziantep, Gümüşhane, Hatay, İçel, İstanbul, İzmir, Kahramanmaraş, Kayseri, Kırkkale, Kocaeli, Konya, Kütahya, Manisa, Muğla, Muş, Nevşehir, Niğde, Osmaniye, Tunceli, Yalova, Yozgat provinces in Asian Turkey (Anatolia) and Edirne, İstanbul, Kırklareli, Tekirdağ provinces in European Turkey (Thrace) (Pic, 1892; Villiers, 1959; Demelt & Alkan, 1962; Demelt, 1963; Villiers, 1967; Fuchs et Breuning, 1971; Tuatay et al., 1972; Gül-Zümreoğlu, 1972, 1975; Sama, 1982; Öymen, 1987; Adlbauer, 1988; Althoff & Danilevsky, 1997; Lodos, 1998; Rejzek & Hoskovec, 1999; Tauzin, 2000; Tozlu et al., 2002; Özdikmen & Çağlar, 2004; Malmusi & Saltini, 2005; Özdikmen et al., 2005; Özdikmen & Demirel, 2005; Özdikmen & Okutaner, 2006; Özdikmen & Şahin, 2006; Özdikmen, 2006, 2007; Özdikmen & Demir, 2006; Özdikmen et al., 2009, 2010; Turgut & Özdikmen, 2010; Özdikmen et al., 2012; Sama et al., 2012; Cihan et al., 2013; Şenyüz & Özdikmen, 2013; Küçükkayıkı et al., 2013; Tekin & Özdikmen, 2015; Albayati et al., 2016).

Range: E: BE BU DE FR GB GE GR (north-east) IT NL RO SP SZ RO ST TR UK N: LB A: AB AR CY GG IN IQ IS LE SY TR (Danilevsky, 2018).

Remarks: The subspecies was recorded from Balıkesir province.

CERAMBYCINAE Latreille, 1802**HESPEROPHANINI Mulsant, 1839*****Trichoferus fasciculatus* (Faldermann, 1837)*****Trichoferus fasciculatus fasciculatus* (Faldermann, 1837)**

Material examined: Balıkesir: Havran, 13.VII.2009, *Punica granatum*, bait trap, 9 specimens; Balıkesir: Havran, 01.VIII.2009, *Punica granatum*, bait trap, 11 specimens; Balıkesir: Havran, 15.VIII.2009, *Punica granatum*, bait trap, 21 specimens.

Hosts: Polyphagous in deciduous trees.

Provincial distribution in Turkey: Ankara, Antalya, Bartın, Bursa, Isparta, İzmir, Manisa, Muğla, Trabzon provinces in Asian Turkey (Anatolia) (İren & Ahmed, 1973; Adlbauer, 1992; Alkan & Eroğlu, 2001; Tozlu et al., 2002; Tezcan & Rejzek, 2002; Malmusi & Saltini, 2005; Özdikmen, 2006; Tezcan & Can, 2009; Özdikmen et al., 2009; Şabanoğlu & Şen, 2016).

Range: E: AL BU CR FR GR IT MA PT RO SP UK YU N: AG EG LB MO TU A: AB AR CY GG IN IQ IS JO LE SY TR (Danilevsky, 2018).

Remarks: The subspecies is a new record for Balıkesir province.

CERAMBYCINI Latreille, 1802***Cerambyx (Cerambyx) welensii* Küster, 1846*****Cerambyx (Cerambyx) welensii welensii* Küster, 1846**

Material examined: Balıkesir: Havran, 15.VIII.2009, *Punica granatum*, bait trap, 1 specimen.

Hosts: Polyphagous.

Provincial distribution in Turkey: Adana, Adıyaman, Antalya, Burdur, Hatay, Isparta, İçel, İstanbul, İzmir, Kahramanmaraş, Karaman, Konya, Niğde, Osmaniye provinces in Asian Turkey (Anatolia) and İstanbul province in European Turkey (Thrace) (Pic, 1897; Bodemeyer, 1906; Demelt, 1963; Öymen, 1987; Rejzek & Hoskovec, 1999; Tozlu et al., 2002; Özdikmen & Çağlar, 2004; Malmusi & Saltini, 2005; Özdikmen & Demir, 2006; Özdikmen, 2006; Tezcan & Can, 2009; Özdikmen & Turgut, 2009; Turgut & Özdikmen, 2010; Özdikmen et al., 2010; Sama et al., 2011; Özbek et al., 2015).

Range: E: AL BH BU CR FR GR HU IT PT RO SK SL SP TR UK YU A: AB CY GG IN IQ TR (Danilevsky, 2018).

Remarks: The subspecies is a new record for Balıkesir province.

CLYTINI Mulsant, 1839

Chlorophorus (Chlorophorus) damascenus (Chevrolat, 1854)

Material examined: Balıkesir: Havran, 13.VII.2009, *Punica granatum*, bait trap, 5 specimens; Balıkesir: Havran, 01.VIII.2009, *Punica granatum*, bait trap, 4 specimens; Balıkesir: Havran, 15.VIII.2009, *Punica granatum*, bait trap, 5 specimens.

Hosts: Polyphagous in deciduous trees and herbaceous plants.

Provincial distribution in Turkey: Adana, Ankara, Antalya, Bartın, Bolu, Bursa, Çankırı, Çorum, Düzce, Hakkari, Hatay, İçel, İzmir, Kahramanmaraş, Karabük, Kastamonu, Kırıkkale, Konya, Muş, Nevşehir, Niğde, Osmaniye and Tunceli provinces in Asian Turkey (Anatolia) (Özbek et al., 2015; Özdikmen & Cihan, 2016).

Range: E: GR (Rodos) N: EG A: CY ?IN IS IQ JO LE SY TR (Danilevsky, 2018).

Remarks: The species is a new record for Balıkesir province.

At the end of this study a total of four species were evaluated. Among those *Trichoferus fasciculatus fasciculatus* (Faldermann, 1837), *Cerambyx (Cerambyx) welensii welensii* Küster, 1846 and *Chlorophorus (Chlorophorus) damascenus* (Chevrolat, 1854) were recorded for the first time from Balıkesir province of Turkey.

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