

See discussions, stats, and author profiles for this publication at: <https://www.researchgate.net/publication/342130381>

Notes on the bait trap collected Cerambycidae (Coleoptera) fauna in pomegranate orchard of Havran (Balıkesir province), Western Turkey. *Munis Entomology & Zoology*, 14 (2): 232–235....

Article in *Munis Entomology and Zoology Journal* · January 2019

CITATIONS

2

READS

53

4 authors:



T. Ö. Abacıgil

Balıkesir University

21 PUBLICATIONS 81 CITATIONS

SEE PROFILE



Sakin Vural Varli

Balıkesir University

31 PUBLICATIONS 132 CITATIONS

SEE PROFILE



Hüseyin Özdikmen

Gazi University

619 PUBLICATIONS 3,174 CITATIONS

SEE PROFILE



Serdar Tezcan

Ege University

328 PUBLICATIONS 1,035 CITATIONS

SEE PROFILE

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

Tuba Öncül Abacıgil*, **Sakin Vural Varlı****,
Hüseyin Özdikmen*** and **Serdar Tezcan******

* Department of Olive and Olive Processing Technology, Vocational High School of Edremit, University of Balıkesir, 10300, Edremit, Balıkesir, TURKEY. E-mail: abacigil@balikesir.edu.tr

** Department of Biology, Faculty of Arts and Science, University of Balıkesir, 10145, Balıkesir, TURKEY. E-mail: svarli@balikesir.edu.tr

*** Department of Biology, Faculty of Science, University of Gazi, Ankara, TURKEY. E-mail: ozdikmen@gazi.edu.tr

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

[Öncül Abacıgil, T., Varlı, S. V., Özdikmen, H. & Tezcan, S. 2019. Notes on the bait trap collected Cerambycidae (Coleoptera) fauna in pomegranate orchard of Havran (Balıkesir province), Western Turkey. Munis Entomology & Zoology, 14 (1): 232-235]

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, Kırıkkale, 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.

LITERATURE CITED

- Adlbauer, K.** 1988. Neues zur Taxonomie und Faunistik der Bockkäferfauna der Türkei (Coleoptera, Cerambycidae). Entomofauna, 9 (12): 257-297.
- Adlbauer, K.** 1992. Zur Faunistik und Taxonomie der Bockkäferfauna der Türkei II (Coleoptera, Cerambycidae). Entomofauna, 13 (30): 485-509.
- Albayati, M. M. I., Özdikmen, H. & Ayberk, H.** 2016. Longhorned Beetles of Belgrad Forest in Istanbul Province with new records to Europe, European Turkey, Marmara Region of Turkey and Istanbul Province (Coleoptera: Cerambycidae). Munis Entomology & Zoology, 11 (2): 661-677.
- Alkan, H. & Eroğlu, M.** 2001. A contribution to the knowledge of Cerambycidae (Insecta: Coleoptera) species of the Eastern Black Sea Region in Turkey. Türkiye Entomoloji Derneği & Dergisi, 25 (4): 243-255.
- Althoff, J. & Danilevsky, M. L.** 1997. A Check-List of Longicorn Beetles (Coleoptera, Cerambycoidea) of Europe. Slovensko Entomološko Društvo Štefana Michielija. Ljubljana, 64 pp.
- Bodemeyer, H. E. V.** 1906. Beiträge zur Käferfauna von Klein Asien – Deutsche Entomologische Zeitschrift, 2: 417-437.
- Cihan, N., Özdikmen, H. & Aytar, F.** 2013. Contributions of the longhorned beetles knowledge of Turkey by the subfamilies Prioninae, Lepturinae, Dorcadioninae and Lamiinae (Coleoptera: Cerambycidae). Munis Entomology & Zoology, 8 (2): 883-894.
- Danilevsky, M. L.** 2018. Catalogue of Palaearctic Cerambycoidea. Available from: <http://www.cerambycidae.net/catalog.pdf> (Updated: 06.08.2018).
- Demelt, C. V. & Alkan, B.** 1962. Short information of Cerambycidae Fauna of Turkey. Bitki Koruma Bülteni, 2 (10): 49-56.
- Demelt, C. V.** 1963. Beitrag zur Kenntnis der Cerambycidenfauna Kleinasien und 13. Beitrag zur Biologie palaearkt. Cerambyciden, sowie Beschreibung einer neuen *Oberaea*-Art. Entomologische Blätter, 59 (3) : 132-151.
- Fuchs, E. & Breuning, S.** 1971. Die Cerambycidenausbeute der Anatolienexpedition 1966-67 des Naturhistorischen Museums, Wien. Annalen Naturhistorischen Museum Wien, 75: 435-439.
- Gül-Zümreöğlu, S.** 1972. Catalogue of Insect and common pests (1928-1969). T. C. Publications of Agriculture Ministry, Bornova, İzmir, 119 pp.
- Gül-Zümreöğlu, S.** 1975. Investigations on taxonomy, host plants and distribution of the Longhorned Beetles (Cerambycidae-Coleoptera) in Aegean Region. T. C. Ministry of Food, Agriculture and Stockbreeding, No : 28, İstiklal Press, İzmir, 208 pp.
- İren, Z. & Ahmed, M. K.** 1973. Microlepidoptera and pests of fruit-trees in Turkey. Bitki Koruma Bülteni, Ankara, Turkey, 1: 41-42.
- Kurt, H. & Şahin, G.** 2013. A Study of Agricultural Geography: Pomegranate (*Punica granatum* L.) Cultivation in Turkey, Marmara Coğrafya Dergisi No: 27, ISSN:1303-2429, pp. 551-574.
- Küçükaykay E. C., Şirin Ü., Çalıskan H. & Şenyüz Y.** 2013. Preliminary work on Longhorned Beetles fauna of Kaz Dağları (İda Mountain) and near with two new subspecies (Coleoptera: Cerambycidae). Munis Entomology & Zoology, 8 (1): 50-62.
- Lodos, N.** 1998. Entomology of Turkey VI (General, Applied and Faunistic). Ege Ü. Ziraat Fak. Yayınları No: 529, E. Ü. Faculty of Agriculture Press, İzmir, 300 pp.
- Malmusi, M. & Saltini, L.** 2005. Cerambycidae raccolti dai componenti del Gruppo Modenese Scienze Naturali durante escursioni in Turchia tra il 1987-2003 (Contributo alla Fauna dei Cerambycidae di Turchia). Quaderno di studi e notizie di storia naturale della Romagna, n. 21, 28 pp. (unpublished).
- Mart, C. & Altın, M.** 1992. Güneydoğu Anadolu Bölgesi nar alanlarında belirlenen böcek ve akar türleri. Türkiye II. Entomoloji Kongresi Bildirileri, 28-31 Ocak 1992, Adana, 725-735.
- Okyar, Z., Öncül Abacıgil, T., Varlı, S. V. & Tezcan, S.** 2014. A short note on the Noctuidae (Lepidoptera) fauna collected by bait traps in pomegranate orchard of Havran (Balıkesir province) of Turkey. Munis Entomology & Zoology, 9 (1): 564-567.
- Öymen, T.** 1987. The Forest Cerambycidae of Turkey. İ. Ü. Forest Faculty, İstanbul, 146 pp.

- Özbek, H., Özdikmen, H. & Aytar, F.** 2015. Contributions of the longhorned beetles knowledge of Turkey by the subfamilies Asemninae, Saphaninae, Spondylidinae, Cerambycinae and Stenopterinae (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 10 (1): 291-299.
- Özdikmen, H.** 2006. Contribution to the knowledge of Turkish longicorn beetles fauna (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 1 (1): 71-90.
- Özdikmen, H.** 2007. The Longicorn Beetles of Turkey (Coleoptera: Cerambycidae) Part I - Black Sea Region. *Munis Entomology & Zoology*, 2 (2): 179-422.
- Özdikmen, H. & Cihan, N.** 2016. Updated List of *Chlorophorus* Chevrolat, 1863 (Coleoptera: Cerambycidae: Cerambycinae) Species from Turkey, With Two New Restorations. *Pakistan J. Zool.*, 48 (2): 365-376.
- Özdikmen, H. & Çağlar, Ü.** 2004. Contribution to the knowledge of longhorned beetles (Coleoptera, Cerambycidae) from Turkey, Subfamilies Prioninae, Lepturinae, Spondylidinae and Cerambycinae. *J. Ent. Res. Soc.*, 6 (1): 39-69.
- Özdikmen, H. & Demir, H.** 2006. Notes on longicorn beetles fauna of Turkey (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 1 (1): 157-166.
- Özdikmen, H. & Demirel, E.** 2005. Additional Notes to the Knowledge of Longhorned Beetle Collection from Zoological Museum of Gazi University, Ankara, Turkey (GUZM) for Turkish Fauna (Coleoptera, Cerambycidae). *J. Ent. Res. Soc.*, 7 (3): 13-38.
- Özdikmen, H. & Okutaner, A. Y.** 2006. The longhorned beetles fauna (Coleoptera, Cerambycidae) of Kahramanmaraş province. *G. U. Journal of Science*, 19 (2): 77-89.
- Özdikmen, H. & Şahin, Ö.** 2006. İç Anadolu Ormançılık Araştırma Müdürlüğü, Entomoloji Müzesi (Türkiye, Ankara) Teke Böcekleri Koleksiyonu (Coleoptera, Cerambycidae). *G. U. Journal of Science*, 19 (1): 1-8.
- Özdikmen, H. & Turgut, S.** 2009. On Turkish *Cerambyx* Linnaeus, 1758 with zoogeographical remarks (Coleoptera: Cerambycidae: Cerambycinae). *Munis Entomology & Zoology* 4 (2): 301-319.
- Özdikmen, H., Güven, M. & Gören, C.** 2010. Longhorned beetles fauna of Amanos Mountains, Southern Turkey (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 5, suppl.: 1141-1167.
- Özdikmen, H., Mercan, N. & Tunç, H.** 2012. Longhorned beetles of Kırkkale province in Turkey (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 7 (1): 568-582.
- Özdikmen, H., Özdemir, Y. & Turgut, S.** 2005. Longhorned Beetles Collection of the Nazife Tuatay Plant Protection Museum, Ankara, Turkey (Coleoptera, Cerambycidae). *J. Ent. Res. Soc.*, 7 (2): 1-33.
- Özdikmen, H., Turgut, S. & Güzel, S.** 2009. Longhorned beetles of Ankara region in Turkey (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 4 (1): 59-102.
- Öztop, A., Kıvradm, M. & Tepe, S.** 2002. Antalya İli nar üretim alanlarında bulunan zararlılar ile bunların paraziitlerinin ve predatorlarının belirlenmesi ve popülasyon değişiminin izlenmesi. T. C. Tarım ve Köyişleri Bakanlığı, Tarımsal Araştırmalar Genel Müdürlüğü, BS-99-06-09-130 No'lu Project Final Report, 16 pp.
- Öztürk, N., Ulusoy, M. R. & Bayhan, E.** 2005. Doğu Akdeniz Bölgesi nar alanlarında saptanan zararlılar ve doğal düşman türleri. *Türkiye Entomoloji Dergisi*, 29 (3): 225-235.
- Pic, M.** 1892. Voyage de M. Charles Delagrange dans la Haute-Syrie. Année 1891 (1) Longicornes. *Annales de la Société entomologique de France*, 61 (1892): 413-422.
- Pic, M.** 1897. Voyage de M. Ch. Delagrange dans la Haute Syrie. Liste des Anthicides et supplément aux Longicornes. *Annales de la Société entomologique de France*, Paris, 66: 389-392.
- Rejzek, M. & Hoskovec, M.** 1999. Cerambycidae of Nemrut Dağı National Park (Anatolia, South-East Turkey). *Biocosme Mésogéen*, Nice, 15 (4): 257-272.
- Sama, G.** 1982. Contributo allo studio dei coleotteri Cerambycidae di Grecia e Asia Minore. *Fragmenta Entomologica*, Roma, 16 (2): 205-227.
- Şabanoğlu, B. & Şen, İ.** 2016. A study on determination of Cerambycidae (Coleoptera) fauna of Isparta Province (Turkey). *Türkiye Entomoloji Dergisi*, 40 (3): 315-329.
- Sama, G., Jansson, N., Avcı, M., Sarıkaya, O., Coşkun, M., Kayış, T. & Özdikmen, H.** 2011. Preliminary report on a survey of the saproxylic beetle fauna living on old hollow oaks (*Quercus* spp.) and oak wood in Turkey (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 6 (2): 819-831.
- Sama, G., Rapuzzi, P. & Özdikmen, H.** 2012. Preliminary report of the entomological surveys (2010, 2011) of G. Sama and P. Rapuzzi to Turkey (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 7 (1): 22-45.
- Şenyüz, Y. & Özdikmen, H.** 2013. A contribution to the knowledge of Turkish longicorn beetles fauna (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 8 (2): 571-577.
- Tauzin, P.** 2000. Complement a l'inventaire des Coleopteres Cerambycidae de Turquie. *L'Entomologiste*, 56 (4): 151-153.
- Tekin, K. & Özdikmen, H.** 2015. A contribution of Turkish Longhorned Beetles Fauna from Bursa (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 10 (1): 122-130.
- Tezcan, S.** 2008. Batı Anadolu nar üretim alanlarında önem kazanan bir böcek türü: İkilekeli kubbeliböcek (*Schistoceros bimaculatus*) (Coleoptera: Bostrichidae). *Hasad*, 24 (277): 80-84.
- Tezcan, S. & Can, P.** 2009. A note on bait trap collected Longhorn Beetles (Cerambycidae) of western Turkey. *Munis Entomology & Zoology*, 4 (1): 25-28.
- Tezcan, S. & Rejzek, M.** 2002. Longhorn beetles (Coleoptera: Cerambycidae) recorded in cherry orchards in Western Turkey. *Zoology in the Middle East*, 27: 91-100.
- Tozlu, G., Rejzek, M. & Özbek, H.** 2002. A contribution to the knowledge of Cerambycidae (Coleoptera) fauna of Turkey. Part I: Subfamilies Prioninae to Cerambycinae. *Biocosme Mésogéen*, Nice, 19 (1-2): 55-94.
- Tuatay, N., Kalkandelen, A. & Aysev, N.** 1972. Bitki Koruma Müzesi Böcek Kataloğu (1961-1971). T. C. Tarım Bakanlığı, Ankara, 53-55.
- Turgut, S. & Özdikmen, H.** 2010. New data for Turkish longhorned beetles fauna from Southern Turkey (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 5, suppl.: 859-889.
- Villiers, A.** 1959. Cérambycides de Turquie. *L'Entomologiste*, 15 (1-2): 7-11.
- Villiers, A.** 1967. Coléoptères Cérambycides de Turquie (1. Partie) - *L'Entomologiste*, 23 (1): 18-22.
- Yıldırım E. M. & Başpınar H.** 2011. Aydın ili nar bahçelerinde saptanan zararlı ve predator türler, yaylıışı, zararlı türlerinin önemlerinin popülasyon değişimi ve zararları. *Türkiye Entomoloji Bülteni*, 1 (3): 169-179.