

**CONTRIBUTIONS TO THE DISTRIBUTION OF
RHYNCHOPHORUS FERRUGINEUS (OLIVIER, 1790)
(COLEOPTERA: DRYOPHTHORIDAE) IN TURKEY**

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ABSTRACT: In this paper, information on distribution of the red palm weevil, *Rhynchophorus ferrugineus* (Olivier, 1790) (Coleoptera: Dryophthoridae) in Turkey is given.

KEY WORDS: Dryophthoridae, *Rhynchophorus ferrugineus*, The red palm weevil, Turkey

The red palm weevil *Rhynchophorus ferrugineus* (Olivier, 1790) (Coleoptera: Dryophthoridae) is a devastating pest of palm species belonging to 18 different genera and three families. The weevil affects approximately 29 palm species and the spread of this species to all continents (Africa, Americas, Asia, Australia together with Oceania, and Europe) except Antarctica (Hussain et al., 2013).

This species reported from Mersin, in 2005 (Karut & Kazak, 2005; Atakan & Yüksel, 2008; Atakan et al., 2012), from Izmir in 2006 (Anonymous, 2013) and later from southern and western provinces of Turkey. Recently, Çıtırkkaya et al. (2014) reported a note on non-target fauna collected by pheromone traps hanged for this species in Izmir province of Turkey.

Material reported in this paper collected from different provinces by author between the years of 2008-2019. Material given as a gift to the Lodos Entomological Museum, Turkey (LEMT) by researchers, students, gardeners etc. were also included in this paper. Information on locality and date of collection, place / plant from which the specimens were collected, number of specimens were given for presented material.

The aim of this paper is to present the new locality records of *R. ferrugineus* to researchers and relevant persons.

RESULTS

At the end of this study, a total of 195 specimens from 12 provinces were recorded.

Adana: Central province, 29.IV.2010, 3 exs., 12.V.2015, 3 exs.

Antalya: Central province, 20.V.2009, *Washingtonia robusta*, 2 exs., 28.VII.2009, pheromon trap, 4 exs., 03.V.2010, *W. robusta*, 1 ex., 05.V.2010, *W. robusta*, 8 exs., 06.V.2010, pheromon trap, 5 exs., 07.VII.2012, *W. robusta*, 6 exs.; Aksu, 26.V.2016, 4 exs.; Alanya, 03.V.2010, *W. robusta*, 3 exs., 05.V.2010, *W. robusta*, 10 exs., 06.V.2010, *W. robusta*, 10 exs.; Kaş, 21.V.2017, 4 exs.; Kemer, 17.V.2014, 3 exs.; Manavgat, 6.VI.2011, 5 exs.; Muratpaşa, 25.IX.2012, *W. robusta*, 7 exs., Muratpaşa, Çallı, 12.VII.2012, *W. robusta*, 4 exs.; Serik, 18.V.2013, 4 exs.

Aydın: Didim, 11.VII.2016, 3 exs.; Kuşadası, 10.VII.2008, 1 ex., 07.VI.2011, 1 ex., Kuşadası, Davutlar, 26.VII.2010, 4 exs., Kuşadası, Güzelçamlı, 18.VI.2016, 1 ex.; Söke, 08.VI.2017, 3 exs.

Bursa: Gemlik, 24.VI.2018, 3 exs.

Hatay: İskenderun, 18.V.2013, 4 exs.

İstanbul: Central province, 26.VI.2017, 3 exs.; Kartal, 13.VI.2016, 1 ex.

İzmir: Central province, 24.VII.2008, *W. robusta*, 1 ex., 03.IV.2010, 1 ex., 17.IV.2010, 1 ex., 04.VII.2018, *W. robusta*, 1 ex.; Balçova, 26.V.2017, *Phoenix* sp., 1 ex.; Bayraklı, 8.VI.2016, *Phoenix* sp., 1 ex.; Bergama, 3.VI.2017, *Phoenix* sp., 1 ex., Bergama, Karahıdırlı, 08.2012, pheromon trap, 6 exs.; Bornova, 03.V.2017, *W. robusta*, 3 exs., 22.XI.2017, *Chamaerops* sp., 3 exs., 03.V.2018, *Washingtonia filifera*, 1 ex., 18.V.2018, *W. robusta*, 2 exs.; Çeşme, 06.VI.2011, *W. robusta*, 1 ex.; Çiğli, 19.V.2017, *Phoenix* sp., 2 exs.; Güzelbahçe, 26.V.2017, *Phoenix* sp., 3 exs.; Karabağlar, 13.X.2016, *Phoenix* sp., 1 ex.; Karaburun, 18.V.2017, *Phoenix* sp., 2 exs.; Karşıyaka, 8.VI.2016, *Phoenix* sp., 4 exs.; Konak, 9.XI.2017, *Phoenix* sp., 1 ex.; Menderes, 6.VI.2016, *Phoenix* sp., 1 ex., Menderes, Gümüldür, 9.VIII.2013, *Phoenix* sp., 1 ex., Menderes, Gümüldür, Özdere, 19.VIII.2014, *Phoenix* sp., 1 ex.; Menemen, 07.V.2009, 1 ex., 14.VII.2012, *W. robusta*, 3 exs., 24.V.2016, *Phoenix* sp., 1 ex.; Narlıdere, 26.V.2017, *Phoenix* sp., 2 exs.; Ödemiş, 25.VII.2008, *W. robusta*, 2 exs.; Seferihisar, 7.VIII.2018, *Phoenix* sp., 2 exs.; Torbalı, 5.VI.2015, *Phoenix* sp., 1 ex.; Urla, 28.V.2018, *Phoenix* sp., 2 exs.

Kocaeli: İzmit, 19.VI.2018, 2 exs.

Manisa: Salihli, 27.IX.2012, 1 ex.; Sarıgöl, 18.VII.2012, 4 exs.; Şehzadeler, 8.XI.2018, 4 exs.; Yunusre, 8.XI.2018, 3 exs.

Mersin: Central province, 26.V.2013, 1 ex.; Tarsus, 26.VIII.2018, 1 ex.; Taşucu, 4.VI.2015, 1 ex.

Muğla: Bodrum, 26.V.2009, 3 exs.; Datça, 7.VI.2018, 1 ex.; Fethiye, 13.VI.2011, 3 exs.; Köyceğiz, 27.V.2017, 2 exs.; Marmaris, 3.VI.2017, 4 exs.

Yalova: Çınarcık, 25.VI.2018, 2 exs.

Totally 195 specimens. Distribution of this species in Turkey were given in Figure 1.

Precautions to prevent the spread of this invasive species in Turkey should be taken as soon as possible.

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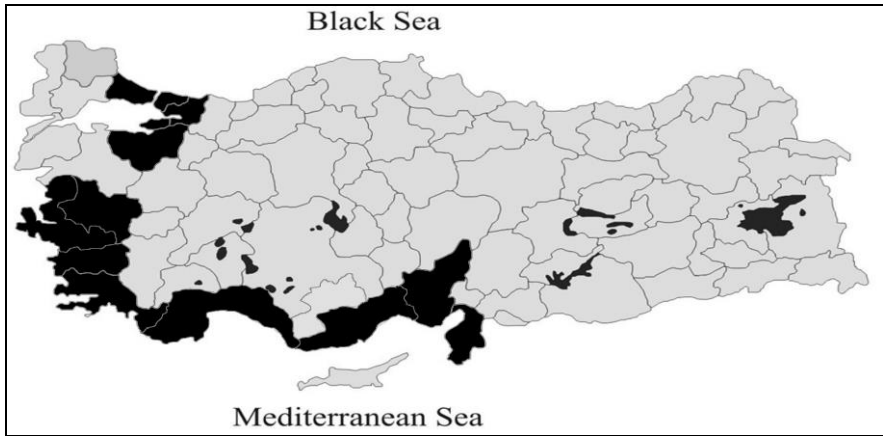


Figure 1. Distribution of *Rhynchophorus ferrugineus* (Olivier, 1790) in Turkey.