

Zelleria oleastrella (Milliere) (Lepidoptera: Yponomeutidae), a new record for the fauna of Turkey

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Abstract: *Zelleria oleastrella* (Milliere), a monophagous pest on olive trees, was recorded for the first time in Turkey. The pest was collected from olive orchards in the eastern Mediterranean region of Turkey in 2008 and 2009. Its general distribution is presented.

Key words: *Zelleria oleastrella*, new record, olive, Turkey

Zelleria oleastrella (Milliere) (Lepidoptera: Yponomeutidae) Türkiye faunasına yeni bir kayıt

Özet: Zeytin ağaçlarında monofag bir zararlı olan *Zelleria oleastrella* (Milliere), Türkiye'de ilk kez tespit edilmiştir. Zararlı, Doğu Akdeniz Bölgesi zeytin bahçelerinden 2008 ve 2009 yılları arasında toplanmıştır. Bu zararlının genel yayılışı verilmiştir.

Anahtar sözcükler: *Zelleria oleastrella*, zeytin, yeni kayıt, Türkiye

The individuals of the family Yponomeutidae (Lepidoptera) are encountered worldwide in temperate, tropical, and subtropical climates (Gershenson and Ulenberg, 1998). The genus *Zelleria* Stainton, 1849 includes more than 50 species; however, only 4 of them occur in Europe (Agassiz and Friese, 1996). *Zelleria oleastrella* (= *Tinea oleastrella*) is a monophagous pest on the olive trees, and here it is first recorded from Turkey.

In 2008-2009, *Z. oleastrella* was collected from olive orchards in the provinces of Adana, Gaziantep, Hatay, Kahramanmaraş, Kilis, Osmaniye, and Mersin. The twigs of *Olea europea* L. trees were infested with the larvae and pupae of the pest, which were collected and allowed to reach the adult stage in the laboratory. Emerged adults were prepared for collection and identification purposes in the laboratory and were then stored in the laboratory

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of the Plant Protection Research Institute in Adana, Turkey. *Zelleria oleastrella* was identified by Dr. Zlata S. Gershenson (Ukraine).

***Zelleria oleastrella* (Milliere)**

Material examined: Hatay-Erzin, 14: 5♂♂, 7♀♀, 25.05.08; Hatay-Dörtyol, 3: 1♀; Hatay-Erzin, 3♀♀, 03.07.08; Osmaniye-Toprakkale, 1♀, 14.07.08; Hatay-Belen, 1♂, 16.07.08; Adana-Ceyhan, 1♂, 21.07.08; Adana-Yüreğir, 1♀, 21.07.08; Osmaniye-Merkez, 1♂, 13.08.08; Hatay-Samandağ, 1♀, 18.08.08; Adana-Kozan, 1♀, 14.10.08; Adana-Feke, 4♂♂, 6♀♀, 14.10.08; Osmaniye-Bahçe, 1♂, 1♀, 16.10.08; Hatay-Yayladağ, 3: 1♂, 30.10.08; Hatay-Altınözü, 2♀♀, 1♂, 11.11.08; Hatay-Kırıkhan, 31♀♀, 19.11.08; Hatay-Reyhanlı, 1♂, 19.11.08; Hatay-Samandağ, 1♀, 25.11.08; Hatay-Dörtyol, 1♂, 16.12.08; Adana-Karaisalı, 1♂, 2♀, 08.04.09; Hatay-Erzin, 1♂, 20.04.09; Hatay-Dörtyol, 24♂♂, 37♀♀, 11.05.09; Adana-Kozan, 1♂, 1♀, 13.05.09; Adana-Yüreğir, 1♂,

1♀, 04.06.09; Osmaniye-Düziçi, 1♀, 08.06.09; Hatay-Dörtyol, 2♀♀, 1♂, 11.06.09; Osmaniye-Toprakkale, 6♂♂, 3♀♀, 15.06.09; Hatay-Dörtyol, 15♂♂, 26♀♀, 22.06.09; Hatay-Erzin, 15: 4♂♂, 10♀♀, 22.06.09; Osmaniye-Toprakkale, 47: 23♂♂, 20♀♀, 28.06.09; Hatay-Erzin, 5♂♂, 10♀♀, 29.06.09; Osmaniye-Toprakkale, 2♀♀, 29.06.09; Mersin-Tarsus, 2♀♀, 30.09.09.

Host plants: According to Tzanakakis (2003), the larva feeds on olive and possibly on Russian olive/oleaster (*Elaeagnus angustifolia*). Although Arambourg and Pralavorio (1986) stated that the species is monophagous on olive (Sterling and Parsons, 2007), Balachowsky (1966) stated that it possibly feeds on oleaster, as well.

Zelleria oleastrella was known in Mediterranean countries and the olive belt of Europe in general, as well as in the Middle East and North Africa (Tzanakakis, 2003).

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