

SCIENTIFIC NOTES

**AN OBSERVATION ON A NEW NATURAL ENEMY OF
TRIONYMUS MULTIVORUS (KIRITCHENKO, 1936)
(HEMIPTERA: PSEUDOCOCCIDAE): *ORIOUS NIGER* (WOLFF,
1811) (HEMIPTERA: ANTHOCORIDAE)**

İnanç Özgen* and Seyid Ahmet Sargin**

* Dicle University, Plant Protection Department, Diyarbakır, TURKEY. E-mail: inancoz@yahoo.com

** Celal Bayar University, Alaşehir Technical and Business College, Alaşehir, Manisa, TURKEY. E-mail: sasargin@yahoo.com

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Trionymus multivorus (Kiritchenko, 1936) (Hemiptera: Pseudococcidae) feeds especially on leaves, roots and shoots of dicotyledon plants in Palearctic region (Kaydan et. al. 2004) and transport some plant virus diseases (Kosztarab and Kozar, 1988). This mealybug species was determined on *Cicer* sp., *Ryngium* sp., *Echinophora tenuifolia*, *Medicago* sp., *Eryngium* sp., *Malva* sp., *Nepeta* sp., and *Daucus guttatus* from Ankara, Nevşehir, Osmaniye and Van provinces (Kaydan et al., 2001a,b).

Echinophora tenuifolia has medical significance in terms of essential oil composition. This plant is endemic herbaceous plant which grows wild in several areas of Turkey (Özcan & Akgül, 2003). There isn't any detail study about pest of this plant.

This study was determined to *Orius niger* (Wolff, 1811) (Hemiptera: Anthocoridae) feeds on *Trionymus multivorus* (Kiritchenko, 1936) (Hemiptera: Pseudococcidae) feeding on Turkish pickling herbaceous plant *Echinophora tenuifolia* L. (Apiaceae) first time.

MATERIAL AND METHODS

The main materials of the study are consisted of Turkish pickling herb *Echinophora tenuifolia* (Apiaceae), mealybug *T. multivorus* and predator *O. niger*. *E. tenuifolia* with roots were taken from the vicinity of Dicle of Diyarbakır province and brought to laboratory inside ice containers on August 10, 2009 and July 22, 2010. After it was examined under the stereomicroscope if specimens of *O. niger* feed on the pseudococcid the plants were shaken off on blotting papers and the anthocorids falling on the paper were taken in the tubes containing 70% alcohol to be identified. Identifications of *T. multivorus*, *O. niger* and *Echinophora tenuifolia* were made by Dr. M. Bora Kaydan for (Yüzüncü Yıl University, Turkey), Dr. Luciana Tavella (Torino University, Italy) and Seyid Ahmet Sargin (Celal Bayar University Technical and Business College) respectively.

RESULTS AND DISCUSSION

Orius niger is a polyphagous predator. The specimens are usually feed on white flyies, thrips, aphids, lepidopteran eggs (Lykoyressis, 1993) and mealybugs (Elekçioğlu & Şenal, 2007). In this study, it was observed that 12 ♀ specimens of *O. niger* feed on young specimens of *T. multivorus*. *T. multivorus* species was observed to feeding on *Echinophora tenuifolia* plant roots. This predator and host relationship between these species was determined first time with this study. The author believes that this result will be usefull in this regard having a data on the determination of alternative hosts of *O. niger*. It was stated first with this study that polyphagous predator *Orius niger* (Wolff, 1811) (Hemiptera: Anthocoridae) feeds on *T. multivorus*. It should be aimed that to detail study of the relationship between the natural enemy of the following years.

LITERATURE CITED

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