

Mehmet Bora KAYDAN, Lerzan ERKILIÇ & Ferenc KOZÁR. – **First record of *Phenacoccus solani* Ferris from Turkey (Hem., Coccoidea, Pseudococcidae)**

The solanum mealybug, *Phenacoccus solani* Ferris, is widely distributed in the Afrotropical Region (Cape Verde, South Africa, Zimbabwe), the Australasian Region (Hawaiian Islands, Kiribati, Marshall Islands), the Nearctic Region (Canada, Mexico, USA), the Neotropical Region (Netherlands Antilles, Brazil, Ecuador, Guatemala, Peru, Puerto Rico, Trinidad and Tobago, Venezuela) and the Oriental Region (Singapore, Thailand, Taiwan, Vietnam) (ScaleNet, 2008). It was recorded in Sicily for the first time in the Palaearctic Region by MAZZEO *et al.* (1999). More recently, it was recorded in Iran (MOGHADDAM *et al.*, 2004) and in Israel (BEN-DOV, 2005). Although this species is polyphagous, having 63 host plants belonging to 29 plant families, the solanum mealybug is recorded as a serious insect pest on tobacco in Zimbabwe by WILLIAMS *et al.* (1985), on *Capsicum annuum* in greenhouses in Japan and Israel by BEN-DOV (2005) and NAKAHIRA & ARAWAKA (2006), on *Nicotiana bethamiana* in greenhouses in Israel by BEN-DOV (2005) and on ornamentals in USA (Florida) by HAMLIN (1974). In this note we report the presence of this mealybug in Turkey and add a new record for the Palaearctic Region.

Material examined. – Adana, on *Portulaca oleracea*, 25.VII.2007, (5 ♀), L. Erkiliç leg. It was collected on the roots of the host plant. The mealybug density was quite high.

The new record presented here indicates that this mealybug now has a wider distribution in the Palaearctic Region, especially in the Mediterranean basin, and might become an important new pest in this region. Further studies could show a still wider distribution in the Mediterranean area of Turkey.

REFERENCES

- BEN-DOV Y., 2005. – The solanum mealybug, *Phenacoccus solani* Ferris (Homoptera: Coccoidea: Pseudococcidae), extends its distribution range in the Mediterranean Basin. *Phytoparasitica*, **33**: 15-16.
- HAMLIN R. A., 1974. – Populations of economically important insects and mites on Florida grown tropical foliage crops. *Florida Foliage Grower*, **11**: 6-8.
- MAZZEO G., RUSSO A. & SUMA P., 1999. – *Phenacoccus solani* Ferris (Homoptera Coccoidea) on ornamental plants in Italy. *Bollettino di Zoologia Agraria e di Bachicoltura*, **31** (1): 31-35.
- MOGHADDAM M., HATAMI B., ZIBAI K. & SABZALIAN M. R., 2004. – Report of *Phenacoccus solani* (Hom.: Coccoidea: Pseudococcidae) from Iran. *Journal of the entomological Society of Iran*, **24** (1): 135-136.
- NAKAHIRA K. & ARAKAWA R., 2006. – Development and reproduction of an exotic pest mealybug, *Phenacoccus solani* (Homoptera: Pseudococcidae) at three constant temperatures. *Applied Entomological Zoology*, **41** (4): 573-575.
- ScaleNet, 2008. – <http://www.sel.barc.usda.gov/scalecgi/distrib.exe?Family=Pseudococcidae&genus=Phenacoccus&species=solani&subspecies=&intro=A>.
- WILLIAMS D. J., BLAIR B. W. & KHASIMUDDIN S., 1985. – *Phenacoccus solani* Ferris infesting tobacco in Zimbabwe (Homoptera, Coccoidea, Pseudococcidae). *Entomologist's Gazette*, **121**: 87.

(M. B. K. : Yuzuncu Yil University, Agriculture Faculty, Plant Protection department, 65080 Kampüs, Van, Turkey <borakaydan@yyu.edu.tr> ; L. E. : Adana Plant Protection Institute, Adana, Turkey ; F. K. : Plant Protection Institute, Hungarian Academy of Sciences, P.O. Box 102, Budapest, 1525 Hungary <h2405koz@ella.hu>)