

NEW RECORDS ON WHITEFLIES IN EGYPT

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Abstract

Trialeurodes ricini (Misra) (Homoptera: Aleyrodidae) on *Ricinus communis* and *Bemisia tabaci* (Genn.) Biotype B (*Bemisia argentifolii* Belows & Perring) on *Gossypium barbadense* (cotton) were recorded for the first time in Egypt.

INTRODUCTION

Family Aleyrodidae (Whiteflies) contains in Egypt important pests of different economic crops including, vegetables, specially cucurbitaceous species, citrus, cotton and ornamental plants (Abd-Rabou, 1990). Superfamily Aleyrodoidea has a world wide distribution and comprises about 1156 species in 126 genera. The study of this group in Egypt started long ago. Priesner and Hosny (1934) described ten new species. Habib and Farag (1970) redescribed and classified the same ten species. El-Helaly *et al.* (1972) recorded *Aleyrodes prolella* (L.). Bink-Moenen (1983) collected and described *Aleuroplatus acaciae* and *Trialeurodes leguminicola* for the first time as new species. Abd Rabou (1996) added six newly recorded species to the Egyptian fauna.

This is a brief note on new whitefly species occurring on *Ricinus communis* and on cotton plant (*Gossypium barbadense*) being new Egyptian records.

MATERIALS AND METHODS

Trialeurodes ricini (Misra) was collected during September 1997 on *Ricinus communis* at Qalyubiya Governorate; trees were heavily infested by this species which was wrongly nominated as *Trialeurodes vaporariorum* (Westwood). The newly record species was confirmed by Dr. Gina Banks (John Innes Center, U.K.) who examined *Trialeurodes* samples by RAPD-PCR* and sent some samples to J.H. Martin of the Hemiptera section at the British Museum, to confirm the identification.

Bemisia tabaci (Genn.) Biotype B (*Bemisia argentifolii* Bellows & Perring) was collected during September 1997 on cotton plant at Demyaat Governorate. Specimens of this species were also sent to Dr. Gina Banks (John Innes Center, U.K.) who examined the samples RAPD-PCR*, confirming that these are all of Biotype B (*Bemisia argentifolii*) Bellows & Perring).

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* RAPD-PCR: Random amplified polymorphic DNA-Polymerase chain reaction.

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تسجيلات جديدة على الذباب الأبيض في مصر

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فى هذا العمل تم تسجيل *Trialeurodes ricini* (Misra) كأفة جديدة للذباب الأبيض على نبات الخروع فى مصر، وكذلك تم تسجيل السلالة البيولوجية B لـ *Bemisia tabaci* (Genn.) على نبات القطن لأول مرة فى مصر.