Bull. Iraq nat. Hist. Mus. (2000) 9 (2): 19-23

A NEW SPECIES OF GENUS TRIALEURODES COCKERE FORM IRAQ (HOMOPTERA, ALEYRODIDAE)*

*I. M. Al and **M.S .Abdaul

*Department of plant protection, College of Agriculture. University of Baghdad.

**lraq Natural History Museum. University of Baghdad, Baghdad, Iraq.

ABSTRACT

Trialeurodes irakensis sp. n. is describe and illustrated from Iraq. T.vaporariorurn (westwood) is reported and for the first time for the Iraqi fauna. A ke to species of Trialeurodes found in Iraq is presented.

INTRODUCTION

During an extensive survey of whiteflies (Homotera. Aleyrodidae) in the middle of Iraq, four species belonging to the genus Trialeurodes Cockerel were noticed amongst the collection. Tow of which T.rara Singh. 1931 and Tricini (Misra. 1924) have been reported for Iraq by mound and Halsey (1978). The third species T.vaporartiorunni (westwood. 1856) has not been reported so far from this .country. The present work records for the first time the occurrence of this species from Iraq. The fourth species compared with allied species of the genus Trialeurodes proved that it is quite distinct from all other species and is described here as a new species.

TRJALEURODES IRAKENSIS sp. n. (Text-fig. 1)

(Text-fig. 1)

Pupal case. Colour, yellowish white with dark brown pigment on dorsal side. Body. oval in shape, surrounded by waxy filament. Length, 0.69-0.72mm. Breadth, 0.45-0.47mm.

Margin. Smoothly crenulate; thoracic tracheal pores apparently indicated by a few differentiated marginal teeth. Submarginal papillae all equal in size, usually arranged in a single row: small poores present beneath each papilla.

Dorsal surface. Logitudinal molting suture nearly reaches middle of dorsal disc. Transversal molting bends posteriorly, then directed anteriorly area. Abdomen with eight visible segments:

vasiform orifice in shape, lateral with tooth-like ridges: operculum rectangular in shape. occupies half vasiform orifice: lingual exposed, lingual tip clearly lobed with paired terminal setae. sometime extending well beyond posterior margin of orifice. Three pairs of major setae. on cephalic region, first and eight abdominal segment.

Ventral surface. Meso-and metathoracic legs each with one pair or more of small setae: prothoracic leg with one setae.

*part of a master's thesis submitted by the first author in 1988 to the college of Agriculture, University of Baghdad

Inheritance of dark head

Specimens studied. Iraq: Baghdad. one pupal case (Holotype) on Hibiscus rosasinensis. 3.iv.1987: three pupal case (paratype) on Hibiscus rosasinensis. and 3.iv.1987. (Leg Al-Malo).

The types were deposited in Iraq Natural History Museum.

Trialeurodes irakensis sp. n. is closely allied to T ricini but differs from it by the following character: operculum rectangular in shape fills half or less than of vasiform orifice: lingula exposed and extending up to tip of vasiform orifice or more.

Trialeurodes vaporariourn (westwood. 1856)

Specimens studied. Iraq: Baghdad, three pupal cases. on Citrus spp. 24.iii.1987: kardala, six pupa cases, on Citrus spp., 24.v.1987 Diyala. three pupal cases, on Citrus spp.iv.1987: (Leg. Al-Malo).

According to Mound and Halsey (1978) arid literature cited, this species has not been recorded so far from Iraq. Therefore, the present specimens constitute the first report of its occurrence in this country.

The following key may separate the four species of Trialeurodes found in Iraq:

1. Submarginal papillae all equal in size, usually arranged in single row (Figs.1,2)...... 2

exposed and extended up to tip of vasiform orifice or more (Figs.I) ...T. irakensis sp. n.
Operculum cordate or subcircular in shape fills more than half of vasiform orifice, and

exposing subapical of lingula (Figs. 2) T ricint (Misra. 1924)

- 3. Subdorsal papillae rounded in shape, not more than three pairs. Submarginal papillae nearly triangular in shape, with shape tip (Fig. 3)..... I rara Singh.1931
- Subdorsal papillae large and rounded in shape, usually four pairs or more (Fig.4)...... T. vaporariorm (westwood. 1856)

LITEREATURE CITED

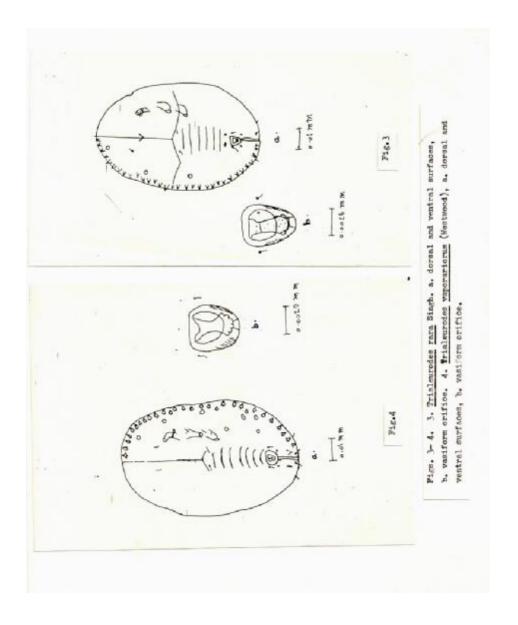
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[.... 88 55 89 Fige. 1-2. 1. Trialeurodes inexensis sp. m., a. doreal and ventral surfaced, b. vasiform orifice. 2. <u>Trialeurodes ricini</u> (Nisra), a. doreal and ventral surfaces, b. lateral margin, c. A d. vasiform orifice a non I see P16.2 AND SHORE ė 0007 COOL STORE CONTRACTOR OF THE # 4 4 5 7 4 M Ī 20 F16.1 A Tim ŝ OTHER REAL ACCORDED TO ACCORD 10000000 5(1)

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