

## The status of *Urophora dzieduszyckii* FRAUENFELD

(Insecta: Diptera: Tephritidae)

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### Abstract

Based on a re-examination of the type materials, following synonymies are established: *Urophora dzieduszyckii* FRAUENFELD, 1867 = *Euribia syriaca* HENDEL, 1927, syn.n., = *E. erichschmidti* HERING, 1953, syn.n. The species is known to occur only in two remote spots, in western Ukraine and the eastern Mediterranean (Syria, Lebanon, Israel). The lectotype of *Urophora dzieduszyckii* is designated.

**Key words:** Diptera, Tephritidae, *Urophora*, new synonym, lectotype designation.

### Zusammenfassung

Folgende Arten müssen aufgrund einer erneuten Überprüfung der Typen synonymisiert werden: *Urophora dzieduszyckii* FRAUENFELD, 1867 = *Euribia syriaca* HENDEL, 1927, syn.n., = *E. erichschmidti* HERING, 1953, syn.n. Die Art ist nur von zwei weit voneinander entfernten Gebieten, der westlichen Ukraine und dem Nahen Osten (Libanon, Syrien, Israel), bekannt. Für *Urophora dzieduszyckii* wird ein Lectotypus festgelegt.

### Introduction

There are about 60 species of the genus *Urophora* ROBINEAU-DESVOIDY in the Palaearctic region. Species of known biology induce galls in the plants of the family Asteraceae. Palaearctic *Urophora* were recently revised (WHITE & KORNEYEV 1989, KORNEYEV & WHITE 1992), but the identity and synonymy of some species remains questionable. During a visit to Vienna in 1995, I had the opportunity to study the specimens of *Urophora dzieduszyckii* FRAUENFELD. They were considered to be the syntypes of this species, not hitherto located.

Materials studied are deposited in the following institutions:

MNHL – The Natural History Museum, London; NHMW – Naturhistorisches Museum Wien; SIZK – Schmalhausen Institute of Zoology, National Academy of Sciences of Ukraine, Kiev; TAU – Tel-Aviv University; ZISP – Zoological Institute, Russian Academy of Sciences, Saint-Petersburg.

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### *Urophora dzieduszyckii* FRAUENFELD

*Urophora dzieduszyckii* FRAUENFELD, 1867: 498 (description); BECKER 1905: 126 (catalogue); KORNEYEV & WHITE 1992: 689 (figures, synonymy, redescription); FOOTE 1984: 141 (catalogue).

*Euribia dzieduszyckii*: HENDEL 1927: 43.

*Urophora wodzickii* FRAUENFELD, 1867: 502 (figure explanation); FOOTE 1984: 141 (synonym of *U. dzieduszyckii*).

*Euribia syriaca* HENDEL, 1927: 49, **syn.n.**

*Urophora syriaca*: WHITE & KORNEYEV 1989: 362 (figures; synonymy, redescription); FREIDBERG & KUGLER 1989: 60 (figures, synonymy, redescription, biology).

*Euribia erichi-schmidti* HERING, 1953: 2, **syn.n.**

*Euribia erichschmidti*: STEYSKAL 1979: 9; FOOTE 1984: 145; WHITE & KORNEYEV 1989: 362 (as a synonym of *Urophora syriaca*).

**Type material examined.** Lectotype *Urophora dzieduszyckii*: ♀, [Ukraine]: "25/6 Sn" (blue paper, Dzieduszycki's handwriting) [Sin'kiw, 32 km N Tshernowtsi, 25.VI. (?)1867], "Alte Sammlung", here designated, marked with red label "Lectotypus *Urophora dzieduszyckii* Frfld. des. V. Korneyev 1995" (NHMW). Paralectotypes *Urophora dzieduszyckii*: ♂, "Podolia/1867" (Frauenfeld's handwriting), "25/6 Sn", "*Dzieduszyckii*/ Alte Sammlung" (O. Müller's handwriting); ♀, "25/6 Sn", "Coll. Hendel", here designated, marked with red labels "Paralectotypus *Urophora dzieduszyckii* Frfld. des. V.Korneyev 1995" (NHMW); ♂, "25/6 Sn", "*Urophora dzieduszyckii* Frfld. Typus" (? Osten Sacken's handwriting), marked with red labels "Syntypus *Urophora dzieduszyckii* Frfld. des. V.Korneyev" (ZISP); ♂, "25/6 Sn", marked with red labels "Syntypus *Urophora dzieduszyckii* Frfld. des. V. Korneyev" (Museum of Natural History, Lviv: collection of Dzieduszycki). Holotype *Urophora syriaca*: ♀, [Syria ?]: "Dr F. Leuthner // Ladijae // 6.1885", "Type ♀" (red paper, Hendel's handwriting), "syriaca H. // det. F. Hendel [back side: "*Euribia*"]", "coll. Hendel", "Type ♀ *Euribia syriaca* Marked by Hardy" (NHMW). Holotype *Euribia erichi-schmidti*: ♂, Syria: "Kahr elnous-saine<?>, 5 km N Tartous, Syrien [5 km from Tartus, Nahr el Houssaine] 18.V.1952, leg. Erich Schmidt", handwritten on the back of the label it says "from *Echinops*" (MNHL).

**Other material examined.** Austria (?): "Coll. Egger // Austria", "*aprica* det. Egger", "*Euribia dzieduszyckii* Frfld. det. Mayer 1953" (♀; NHMW); Ukraine: "Galizien Ende Juni", "Babek" (2 ♂♂; NHMW); "Halizia// (Nowicki) Mik", "*Dzieduszyckii* det Mik" (♀; SIZK); Israel: Mt. Hermon, 1600 m, 21-22.VI.1971, J. Kugler; [Mt.] Meiron, 15.VI.1971, J. Kugler (5 ♂♂, 5 ♀♀; NHMW).

**Other material data.** 160 specimens from the Near East (TAU) determined as *Urophora syriaca* by FREIDBERG & KUGLER (1989) were not examined, but obviously are conspecific with other specimens of *U. dzieduszyckii* from this region.

### Remarks

*Urophora dzieduszyckii* FRAUENFELD and *Urophora syriaca* (HENDEL) were considered possible synonyms (WHITE & KORNEYEV 1989, KORNEYEV & WHITE 1992), but accurate identification of these species was pending until additional material became available.

The type locality of *U. dzieduszyckii* was considered to be misquoted by FRAUENFELD (1867) and then by FOOTE (1984) (WHITE & KORNEYEV 1989), and no type materials could be located. FRAUENFELD (1867) did not give any type locality, and FOOTE (1984) has quoted the type locality as "Krakau", which was actually the town of Prof. M. Nowicki (a person who forwarded the flies from W. Dzieduszycki to G.R. von Frauenfeld) but not a true collecting place. Włodzimierz [Wladimir] Dzieduszycki was the founder of the Museum of Natural History, Lviv (= Lemberg), now in Ukraine.

Later, the male specimen determined by Frauenfeld was found in the Dzieduszycki entomological collection and sent to me by Dr. V. Rizun for examination, along with an explanation of the original label. Another male, with the similar labels, obviously originated from Osten Sacken's collection, was found in the collection of the Zoological Institute, Saint-Petersburg. These two specimens were considered to be possible syn-type males (KORNEYEV & WHITE 1992) (in the current paper they are considered as paralectotypes).

During a visit to the Naturhistorisches Museum Wien in 1995, I have examined the Tephritidae collection and found the remaining type and topotypic material of *U. dzieduszyckii* and *E. syriaca*. The holotype specimen of *U. syriaca* has 3 - 5 frontal bristles, but other specimens from Israel, Syria and Lebanon normally have 2 frontals; this character is rather variable in *Urophora* and has no taxonomic value. FREIDBERG & KUGLER (1989) wrote that the Near East specimens have 2 to 4 frontal bristles. Therefore, specimens from Podolia and eastern Mediterranean are conspecific, and the names *U. dzieduszyckii* and *U. syriaca* are synonyms.

The binomen *Urophora wodzickii* FRAUENFELD was published in the explanation to the figure showing a wing of *U. dzieduszyckii*; the latter species was referred to two pages earlier. It is not clear, if it was a typist error and therefore I consider this name as an available name and an objective junior synonym of *U. dzieduszyckii*.

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