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***Shenahweum minutum* (Hemiptera, Aphidoidea: Drepanosiphinae)—taxonomic position and description of sexuales**

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Abstract

The oviparous female and winged male of *Shenahweum minutum* (Davis) are described and illustrated in detail for the first time. Notes on distribution and host plants are presented as well as additional taxonomic data on the genus.

Key words: Aphidoidea, Drepanosiphinae, *Shenahweum minutum*, sexuales

Introduction

Shenahweum minutum (Davis) is a holocyclic and monoecious aphid species in the subfamily Drepanosiphinae in which all viviparous generations are winged. This aphid lives on the undersides of leaves of *Acer saccharum* in the eastern part of North America. Sexual morphs of the species have previously been unknown. However, during examination of aphids in the collection of the Muséum national d'Histoire naturelle, Paris, specimens of oviparous females and males of *S. minutum* were found. Moreover, an examination of aphids in the collection of the Natural History Museum, London, provided additional material of sexuales and a description of these morphs is included below.

Material and methods

The specimens were examined using the light microscope Nikon Ni-U. Drawings were made with a camera lucida. In each of the drawings a magnified view is provided. Measurements are given in mm (Tables 1 and 2). The studied material is deposited in the Muséum national d'Histoire naturelle, Paris (MNHN) and the Natural History Museum, London (BMNH).

***Shenahweum* Hottes & Frison**

Shenahweum Hottes & Frison, 1931: 267. Type species *Drepanaphis minutus* Davis, by original designation
Shenahweum Hottes & Frison; Blackman & Eastop, 1994: 877.

This genus of Drepanosiphinae comprises a single species. It is closely related to the genus *Drepanaphis* del Guercio, of which it has been considered a subgenus by some authors (Nieto Nafria et al., 2011).

***Shenahweum minutum* Davis**

(Figs 1, 2)

Drepanaphis minutus Davis, 1910: 195

recognized the generic status of *Shenahweum* (see also Favret et al., 2008), but Nieto Nafria et al. (2011) continued to treat it as a subgenus. As sexual morphs of this species have been unknown, the differences between these genera were based only on characters of the winged viviparous females. The main differences between the sexuales of *Shenahweum* and *Drepanaphis* include the number, shape and position of pseudosensoriae in oviparous females as well as the antennal chaetotaxy, the length of processus terminalis, sclerotization of the abdomen and the presence of abdominal tubercles in males (Table 3). The characters of the winged females (studied type specimens of 12 species of *Drepanaphis* and *S. minutum*) and sexuales of the *Shenahweum* and *Drepanaphis* (Table 3) are clear, and *Shenahweum* is here considered to have full generic status.

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