



A review of the genus *Tragidion* Audinet-Serville, 1834 (Coleoptera: Cerambycidae: Cerambycinae: Trachyderini)

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Abstract

The genus *Tragidion* Audinet-Serville is reviewed, two new species are described: *Tragidion agave*, sp. nov., and *Tragidion deceptum*, sp. nov.; four new synonymies are proposed: *T. peninsulare* Schaeffer and *T. p. californicum* Linsley = *T. annulatum* LeConte, *T. cyanovestis* Chemsak and Linsley = *T. bicolor* Bates, and *T. armatum brevipenne* Linsley = *T. armatum* LeConte; *T. densiventre* Casey is revalidated from synonymy; the lectotypes of *T. annulatum* LeConte and *T. auripenne* Casey are designated; separate keys to both sexes of the adults are provided, and information on the ecology of the genus is summarized.

Key words: Insecta, *Yucca*, *Hesperoyucca*, *Agave*, mimicry, southwest USA, Mexico, taxonomy

Resumen

El género *Tragidion* Audinet-Serville se revisa, dos nuevas especies se describen: *Tragidion agave*, sp. nov., y *Tragidion deceptum*, sp. nov.; cuatro nuevas sinonimias se proponen: *T. peninsulare* Schaeffer y *T. p. californicum* Linsley = *T. annulatum* LeConte, *T. cyanovestis* Chemsak y Linsley = *T. bicolor* Bates, y *T. armatum brevipenne* Linsley = *T. armatum* LeConte; *T. densiventre* Casey es revalidado de sinonimia; los lectotipos de *T. annulatum* LeConte y *T. auripenne* Casey son designados; claves diferentes para ambos sexos de los adultos se proporcionan, y la información sobre la ecología del género se resume.

Palabras clave: Insecta, *Yucca*, *Hesperoyucca*, *Agave*, mímica, sudoeste EEUU, México, taxonomía

Introduction

The genus *Tragidion* Audinet-Serville is distributed throughout much of North America, Guatemala, and Honduras. Adults of one or both sexes are usually bright orange in color and mimic members of the pompilid genera *Pepsis* Fabricius and *Hemipepsis* Dahlbom (Hymenoptera: Pompilidae) (Chemsak and Powell 1966). Within the subfamily Cerambycinae and tribe Trachyderini, *Tragidion* is placed in the subtribe Trachyderina, which contains the majority of species within the tribe (Monné *et al.* 2007). *Tragidion* is morphologically similar to other genera in the Trachyderini, such as *Scythroleus* Bates, *Purpuricenus* Dejean, *Metaleptus* Bates, *Phoenicus* Lacordaire, and *Polyschisis* Audinet-Serville, although no formal phylogeny has been proposed.

Most species within the genus *Tragidion* are difficult to identify, and species boundaries remain indistinct. Among species, adults are morphologically similar. Within species, however, adults are highly sexually