



New *Agrilus* Curtis species from mistletoe in México (Coleoptera: Buprestidae)

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Abstract

Agrilus andersoni Hespeneide, new species, from the genus *Phoradendron* and *A. howdenorum* Hespeneide, new species, collected on “mistletoe,” are described, illustrated, and compared to the related *A. turnbowi* Nelson from Texas which is also known to use the genus *Phoradendron* as a larval host.

key words: *Agrilus*, Buprestidae, México, mistletoe, new species, *Phoradendron*, Viscaceae

Introduction

The plant genus *Phoradendron* includes a moderately large number of species of mistletoes in the family Viscaceae (or Santalaceae, s. lat.). Anderson (1994) has reviewed the weevil genera that use species of *Phoradendron* as hosts, including three genera in the Conoderinae (as Zygotinae) and *Cionomimus* (Burke 1982) and *Smicraulax* (Burke & Hafernik 1971) in the Anthonomini. Mistletoes are infrequent hosts of *Agrilus* Curtis, 1825. Nelson (1990) described *Agrilus turnbowi* from specimens reared from *Phoradendron* in Texas. The genus *Agrilus* is by far the largest genus in the Buprestidae in México with literally hundreds of undescribed species (Hespeneide 1989, 1996). Describing small numbers of species of *Agrilus* is certainly not preferable to larger studies, but the known and interesting biology of this distinct species group warrants their publication.

The following collection codens are used throughout the text (Evenhuis 2007): BMNH: The Natural History Museum, London, England; CHAH, Henry A. Hespeneide, University of California, Los Angeles, CA, U.S.A.; CLBC, C.L. Bellamy, Sacramento, CA, U.S.A.; CMNC, Canadian Museum of Nature, Ottawa, Canada; MNHN, Museum of Natural History, Paris, France; NMPC, National Museum, Prague Czech Republic; RLWE, R.L. Westcott, Salem, OR, U.S.A.; USNM: National Museum of Natural History, Smithsonian Institution, Washington, DC, U.S.A.

Agrilus andersoni Hespeneide, new species

(Figs. 1–3)

Description. Holotype male: Moderately robust, flattened above, more convex below in cross section, 5.8 mm long, 1.6 mm wide; purplish-red on most of front, pronotum, half the length of the elytra beyond anterior 1/3, meso- and metasternum, and abdomen beneath, elytra and abdomen with coppery reflections, front metallic olive-green between eyes and on anterior faces of anterior femora, otherwise dark purple, including prehumeral carinae and basal depression of pronotum and apical 1/6 of elytra; setae pale, recumbent and inconspicuous on pronotum and beneath, denser and semi-erect on prosternal process, golden and denser on