

## Mexican *Acmaeodera* Eschscholtz, 1829: A new species and checklist, with miscellaneous taxonomic and biological notes on other North American Buprestidae (Coleoptera)

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### Abstract

*Acmaeodera jeanae*, sp. nov., is described from Oaxaca in southern Mexico, and is compared with *A. scapularis* Horn, 1894 from Baja California Sur, Mexico and *A. mixteca* Westcott, 1998 from Oaxaca and Puebla, Mexico. A checklist of the species of *Acmaeodera* known from Mexico, including Baja California is provided. Notes describe the predatory behavior of *Cerceris grandis* Banks (Hymenoptera: Sphecidae) upon *Gyascutus planicostus* (LeConte), 1858 and predation by *Cerceris californica* Cresson upon *Acmaeodera maculifera* Horn, 1894. A new adult host plant is noted for *Acmaeodera recticollis* Fall, 1899. The genus *Squamodera* Nelson, 1996, and the four species and synonyms included therein, are transferred to the genus *Acmaeodera* as a subgenus. *Acmaeodera loei* Manley, 1987 is recorded from Mexico for the first time.

**Key words:** Coleoptera, Buprestidae, *Acmaeodera*, *Chrysobothris*, *Gyascutus*, Hymenoptera, Sphecidae, *Cerceris*, new species, checklist, predation, Mexico

### Introduction

During a recent collecting trip to southern Mexico, an interesting new species was found and is described herein in order to make the name available for inclusion in the forthcoming world catalogue of Buprestidae (Bellamy, in prep.). A taxonomic change, new adult host plants, new distribution and predation records are also included. Abbreviations used herein are: CASC – California Academy of Sciences, San Francisco; CLBC – C. L. Bellamy collection, Sacramento, California; EBCC – Estacion Biologia Chamela, Jalisco, Mexico; EMEC – Essig Museum of Entomology, University of California, Berkeley; JJMD – J. M. & J. P. Davidson collection, Glendale, Arizona; RHTC – R. H. Turnbow collection, Enterprise, Alabama; RLWE – R. L. Westcott collection, Salem, Oregon; and UNAM - Universidad Autónoma Nacional de Mexico, Mexico City.