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## **The cicadas of Argentina with new records, a new genus and fifteen new species (Hemiptera: Cicadoidea: Cicadidae)**

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## Abstract

The Argentine cicada fauna is determined. A total of 108 species belonging to 37 genera, eight tribes, and three subfamilies of cicadas are represented in the Argentine cicada fauna. One genus and 15 species are described as new to science: *Torresia* Sanborn & Heath **gen. n.**, *Fidicinoides ferruginosa* Sanborn & Heath **sp. n.**, *Proarna alalonga* Sanborn & Heath **sp. n.**, *Proarna parva* Sanborn & Heath **sp. n.**, *Prasinosoma medialinea* Sanborn & Heath **sp. n.**, *Dorisiana noriegai* Sanborn & Heath **sp. n.**, *Guyalna platyrhina* Sanborn & Heath **sp. n.**, *Herrera humilastrata* Sanborn & Heath **sp. n.**, *Herrera umbraphila* Sanborn & Heath **sp. n.**, *Parnisa lineaviridia* Sanborn & Heath **sp. n.**, *Parnisa viridis* Sanborn & Heath **sp. n.**, *Alarcta micromacula* Sanborn & Heath **sp. n.**, *Torresia lariojaensis* Sanborn & Heath **sp. n.**, *Torresia sanjuanensis* Sanborn & Heath **sp. n.**, *Chonosia longiopercula* Sanborn & Heath **sp. n.**, and *Chonosia septentrionala* Sanborn & Heath **sp. n.** *Adusella signata* Haupt, 1918 **rev. stat.** is determined to be a valid species, removed as a junior synonym of *Tettigades lebruni* Distant, 1906 and reassigned to the genus *Odopoea* Distant to become *Odopoea signata* **comb. n.** *Fidicina vinula* Stål, 1854 **rev. stat.** is determined to be a valid species, removed as a junior synonym of *Fidicinoides pronoe* (Walker, 1850) and assigned to the genus *Fidicinoides* Boulard & Martinelli to become *Fidicinoides vinula* **comb. n.** *Proarna capistrata* Distant, 1885 **rev. stat.** is determined to be a valid species, removed as a junior synonym of *Proarna montividentis* Berg, 1882. *Chonosia papa* (Berg, 1882) **rev. stat.** is determined to be a valid species and removed as a junior synonym of *Chonosia crassipennis* (Walker, 1858). *Chonosia crassipennis* var. *metequei* nom. nud. Delétang, 1919 **syn. n.** is considered natural variation in *C. crassipennis*. *Dorisia bonaerensis* var. *bergi* nom. nud. Delétang, 1919 **syn. n.** and *Dorisia bonaerensis* var. *dominiquei* nom. nud. Delétang, 1919 **syn. n.** are considered to be natural variation within *Guyalna bonaerensis* (Berg, 1879). *Derotettix proseni* Torres, 1945 is determined to be a junior synonym of *Derotettix wagneri* Distant, 1905 **syn. n.** *Dorisiana metcalfi* **nom. nov.** pro *Cicada viridis* Olivier, 1790 nec *Cicada viridis* Linnaeus, 1758 is proposed. *Tettigades lizeriana* Delétang, 1919 is shown to be an invalid name for the purposes of zoological nomenclature. The first records for Argentina of *Fidicinoides determinata* (Walker, 1858), *Fidicinoides vinula* (Stål, 1854) **comb. n., rev. stat.**, *Prasinosoma fuembuenai* Torres, 1963, *Ariasa bilaqueata* (Uhler, 1903), *Ariasa colombiae* (Distant, 1892), *Carineta boliviana* Distant, 1905, *Carineta gemella* Boulard, 1986, *Calyria stigma* (Walker, 1850), *Selymbria pandora* Distant, 1911, *Taphura hastifera* (Walker, 1858), *Taphura misella* (Stål, 1854), and *Tettigades angularis* Torres, 1958 are provided. Ten species are removed from the Argentine cicada fauna. The new records and new species represent a 36% increase in the known cicada fauna. Fifty-eight species (54%) and 10 genera (27%) are currently endemic to Argentina.

**Key words:** biodiversity, taxonomy, *Fidicinoides*, *Proarna*, *Prasinosoma*, *Dorisiana*, *Guyalna*, *Herrera*, *Parnisa*, *Alarcta*, *Torresia*, *Chonosia*

## Introduction

Historically the presence of two eminent entomologists living in Argentina helped to expand the known Argentine cicada fauna beyond the descriptions of species produced by various European taxonomists. Carlos Berg (1843–1902) published five papers over a six-year period describing a new genus and 14 new species of cicadas from Argentina (see references in Metcalf 1962). Belindo A. Torres (1917–1965) published a series of 29 papers over 25 years on the Argentine cicada fauna (see references in Metcalf 1962; Duffels & van der Laan 1985). Included in his works were the descriptions of eight new genera and 35 new species inhabiting Argentina. The work of Berg and Torres within Argentina resulted in a more complete description of the native cicadas of Argentina than for most South American countries. However, new species and new records continue to be found for Argentina.

This work provides a provisional checklist of the cicada fauna of Argentina. In addition to records from the literature, we provide the descriptions of a new genus, 15 new species and the first records for another 15 species. Finally, we retrieve two species from junior synonymy, reassign two species to new genera, and show one taxon is invalid. Biological notes on the species are provided from our fieldwork.

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