



## Catalog of Chilean Pentatominae Leach, 1815 (Hemiptera: Heteroptera: Pentatomidae)

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### Abstract

The Chilean Pentatominae species are listed and catalogued; a total of 18 species have been accounted. Additionally 3 species present doubtful or incomplete records. Most of the species are endemic to South America; 2 species are considered introduced in Chile, and 6 species are exclusively Chilean.

**Key words:** Hemiptera, Heteroptera, Pentatomidae, Pentatominae, Chile, Catalog

### Resumen

Se listan y catalogan las especies chilenas de Pentatominae; contabilizando un total de 18 especies. Adicionalmente 3 especies son dudosas o presentan registros incompletos. La mayoría de las especies son endémicas de Sudamérica; 2 son consideradas introducidas en Chile y 6 son exclusivamente chilenas.

**Palabras clave:** Hemiptera, Heteroptera, Pentatomidae, Pentatominae, Chile, Catálogo

### Introduction

Pentatomidae Leach, 1815 is one of the largest families within the Heteroptera, with about 4100 species classified in 760 genera, and Pentatominae is the largest subfamily of Pentatomidae (Schuh & Slater 1995). Species of Pentatominae are phytophages, and there are species of economic importance (Schaefer & Panizzi 2000), used for food and medicine (Hoffmann 1947), and used in current climatic change studies (Musolin 2007).

The knowledge of Chilean Pentatominae began with Spinola's (1852) work in Claudio Gay's *Historia Física y Política de Chile*, which is the most important founding work of the Chilean Natural History for Heteroptera (Faúndez 2010a; Faúndez & Carvajal 2010). Subsequently, Signoret (1864) described and redescribed a lot of Pentatominae taxa. A third work that should be considered as a founding work on Chilean Pentatominae is the 'Synopsis' of Reed (1898). Reed's works was criticized and corrected by Berg (1900); however Reed provided a lot of information which makes his work an important resource.

Little information was published after the works of Spinola (1852), Signoret (1864) and Reed (1898), although Chilean Pentatominae have occasionally been mentioned in faunistic works, lists, or reviews. As result, we know very little about Chilean Pentatominae. Additionally, several Chilean Pentatominae have been omitted in published checklists (Prado 1991, 2008). Recently, some confusion created by older Chilean works has been resolved (Faúndez 2010a, Faúndez 2010b, Faúndez & Carvajal 2010, Grazia & Campos 2010), and new additions to Chilean Pentatominae fauna have been published (Mondaca *et al.* 2008; Faúndez & Verdejo 2009). For these reasons, a summary which includes both old and modern references, and the taxonomic changes and corrections is needed.