

Agromyzidae (Insecta: Diptera) from the Alishan Mountains, Taiwan, with Descriptions of Five New Species

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This paper is based on 58 specimens of Agromyzidae collected by staff of the Bishop Museum, Honolulu, in the Alishan Mountains (alt. 1,800–2,400 m) of Taiwan. Eighteen species are represented. Five of these are described as new to science: *Cerodontha (Icteromyza) alishana* sp. nov., *Liriomyza maai* sp. nov., *L. strumosa* sp. nov., *Phytomyza pseudoangelicae* sp. nov., and *P. quadrispinosa* sp. nov. Seven species in six genera, including two uncommon species in Europe, *Phytoliriomyza alpicola* (Strobl, 1898) and *Phytomyza salviae* (Hering, 1924), are recorded as new to the Taiwanese fauna of this family, bringing the total number now to 107 species.

Key Words: Insecta, Diptera, Agromyzidae, Taiwan, new species, new records.

Introduction

Ninety-five species belonging to 16 genera of the family Agromyzidae are known to occur in Taiwan at present (Malloch 1914; Spencer 1961; Sasakawa 1963a, 1972, 1977, 1996; Shiao and Wu 1995, 1996, 1999, 2000; Liao and Shiao 2001; Shiao 2004; Shiao and Wu 2005). The fauna of agromyzid leafminers in Taiwan, being dominated by the genus *Phytomyza* Fallén, 1810 in addition to the tropical genus *Melanagromyza* Hendel, 1920, is noteworthy in comparison with that in other countries in the Oriental Region (Sasakawa 1972).

The occurrence of 12 species in the Alishan area of Chiayi County (Hsien), Taiwan, was recorded by Sasakawa (1972): *Melanagromyza provecta* (de Meijere, 1910), *Agromyza obesa* Malloch, 1914, *Cerodontha (Poemyza) hirta* Sasakawa, 1972, *Liriomyza brassicae* (Riley, 1884), *L. pusilla* (Meigen, 1830), *Phytomyza takasagoensis* Sasakawa, 1972, *P. tomentella* Sasakawa, 1972, *P. valida* Sasakawa, 1972, *P. yashumatsui* (Sasakawa, 1955), *Chromatomyia horticola* (Goureaux, 1851), *C. perangusta* (Sasakawa, 1972), and *C. plantaginis* (Robineau-Desvoidy, 1851).

In this paper 18 species are recorded, of which five are new to science and seven are new to the Taiwanese fauna. Especially, the present confirmation of four Palearctic species, *Melanagromyza aeneoventris* (Fallén, 1823), *Cerodontha (Xenophytomyza) bisetosa* Zlobin, 1994, *Phytoliriomyza alpicola* (Strobl, 1898), and *Phytomyza salviae* (Hering, 1924), as new to Taiwan at high altitudes, represents an interesting extension of their ranges.