

On the Agromyzidae (Diptera) in Norway, Part 1

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The present paper comments on thirty-three of the forty-seven species belonging to six Agromyzidae genera and presently known to occur in Norway. Thirteen species are reported new to the Norwegian fauna belonging to the family Agromyzidae. The species are: *Amauromyza* (*Cephalomyza*) *chenopodivora* Spencer, 1971, *Amauromyza* (*Cephalomyza*) *monfalconensis* (Strobl, 1909), *Cerodontha* (*Butomyza*) *rohdendorfi* Nowakowski, 1967, *Cerodontha* (*Butomyza*) *scutellaris* (Roser, 1840), *Cerodontha* (*Cerodontha*) *fulvipes* (Meigen, 1830), *Cerodontha* (*Cerodontha*) *stackelbergi* Nowakowski, 1972, *Cerodontha* (*Dizygomyza*) *caricicola* (Hering, 1926), *Cerodontha* (*Icteromyza*) *capitata* (Zetterstedt, 1848), *Cerodontha* (*Poemyza*) *pygmina* (Hendel, 1931), *Metopomyza* *flavonotata* (Haliday, 1833), *Metopomyza* *scutellata* (Fallén, 1823), *Metopomyza* *xanthaspioides* (Frey, 1946) and *Aulenagromyza* *buhri* (de Meijere, 1938). In addition new regional data is given for twenty species previously reported from Norway. The biology of the larva, when known, and the distribution in Norway and Europe are commented on for each of the species.

Key words: Diptera, Agromyzidae, *Amauromyza*, *Aulenagromyza*, *Calycomyza*, *Cerodontha*, *Metopomyza*, *Pseudonapomyza*, larval biology, distribution, Norway.

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Introduction

The larvae of Agromyzidae mine in leaves and stems of plants, thus infesting many plant species. Most species are oligophagous, but a few are polyphagous (Spencer 1990), and many species are important pests on various cultural plants. Kenneth A. Spencer laid the foundation of our knowledge of the Norwegian Agromyzid fauna with his monograph “The Agromyzidae (Diptera) of Fennoscandia and Denmark” (Spencer 1976). Yet, the Norwegian fauna of Agromyzidae is poorly known, although some recent data have been published (Andersen & Jonassen 1994, Andersen et al. 2004, Andersen 2011).

Agromyzidae is represented in Norway by fifteen genera belonging to two subfamilies, with a total of 185 species recorded so far. This paper is intended to be the first in a series which presents new data on the fauna of Agromyzidae in Norway.

Materials and methods

The present report deals with material collected during different projects and collecting trips in many parts of Norway, but mainly meadows with a rich flora in South-Eastern Norway have been investigated. If a species has been found more than once in the same district or EIS quadrat, only data on the first find is given. In such cases the total number of specimens investigated of the species is indicated. Most of the specimens were netted by the author, and the material has been stored in 70% ethanol in the author’s private collection. In a few cases flies were collected in a Malaise-trap. Localities are given using the revised Strand-system (Økland 1986) and the EIS system (Endrestøl 2005).