

Opomyzidae

Jan Willem A. van Zuijlen (1998 Checklist: Bernard Merz)

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Diagnosis: Small (2.0-5.0 mm) and rather slender flies; body yellowish, reddish brown or black, with narrow, more or less distinctly maculated wings (at least with tip darkened). Head rounded, ocelli present; arista pubescent to plumose; ocellar setae present, post-verticals (postocellars) absent in the genera occurring in Switzerland, only one reclinate orbital, interfrontal setulae scattered, true vibrissa absent. Thorax with one or more anepimeral (pteropleural) setae; anepisternum (mesopleuron) usually setulose; two scutellar setae. Wings long and slender, alula and anal lobe reduced or absent. Costa with only subcostal break, subcosta reduced and fused with R_1 , forming a preapical kink on it, cross-vein $bm-cu$ present but incomplete. Tibiae without dorsopreapical setae. Male genitalia with gonostylus fused to epandrium.

Biology: The adults typically inhabit grassland (wet and dry) but some also occur in grassy undergrowth of forests. The larvae are phytophagous in graminoid herbs, feeding in stems and can cause damage called « dead heart »; several species are cereal pests.

Nomenclature and classification: After the publication of Czerny (1928), no comprehensive study on the Palaearctic Opomyzidae has been published. For the *combinata* group in the genus *Geomyza* the interpretation of Drake (1992) is followed. This is also reflected in van Zuijlen (2013), which classification is followed.

Number of species: CH: 17 (1998 Checklist: 13),
BE: 17, CZ: 21, DE: 21, IT: 12, NL: 14, UK: 16, Europe: 33, World: 56.

Level of faunistic knowledge in Switzerland: Medium.

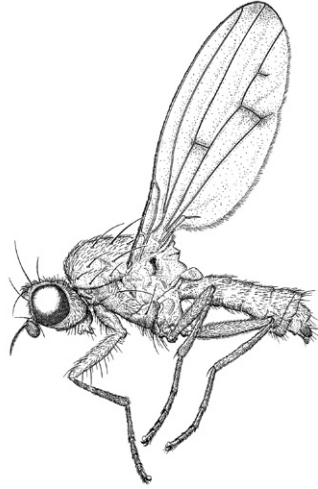
General references: Drake (1993) [key for Switzerland – only partial], Czerny (1928) and Carles-Tolrá (1994) [keys], Zuijlen (1999a) [*combinata* group females], Brunel (1998) [general].

References to the Swiss fauna: Meier & Sauter (1989), Drake (1992), Merz (1998), van Zuijlen (1999b), Bächli et al. (2014).

Checklist

Geomyza Fallén, 1810

- *apicalis* (Meigen, 1830) !
 - = *hendeli* Czerny, 1928 N1
- *balachowskyi* Mesnil, 1934 !
- *brevisetæ* Czerny, 1928 !



Opomyza florum,
female (CMPD3, p.260).

- *hackmani* Nartshuk, 1984 !
- *martineki* Drake, 1992 !
- *nartshukae* Carles-Tolrá, 1993 !
- *paganettii* (Strobl, 1909) ! N2 [1]
- *pilosula* Czerny, 1928 ! N3 [2]
- *subnigra* Drake, 1993 !
- *tripunctata* Fallén, 1823 !
- *venusta* (Meigen, 1830) !

Opomyza Fallén, 1820

- *decora* Oldenberg, 1910 !
- *florum* (Fabricius, 1794) !
- *germinationis* (Linnaeus, 1758) !
- *petrei* Mesnil, 1934 !
- *punctata* Haliday, 1833 !
- *punctella* Fallén, 1820 !

Notes

- N1 As mentioned by Bächli et al. (2014), *Geomyza hendeli* Czerny, 1928 was synonymised by van Zuijlen & Rohaček (2006) with *Geomyza apicalis* (Meigen, 1830).
- N2 *Geomyza paganettii*: first verified record for Switzerland, known before to occur from literature only.
- N3 *Geomyza pilosula*: first records for Switzerland.

Species records

- [1] 1M, GR, Grono (Dorf), 31.8.2006, 350 m., leg. Bernhard Merz
- [2] 1F, GR, Lenzerheide, 8.10.1991. leg. Merz & Eggenberger

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