

Audcent, 1934

To David G. Hall

With the Author's Compliments

BRISTOL INSECT FAUNA

DIPTERA

(PART VII AND LAST)

By

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REPRINTED FROM THE
PROCEEDINGS OF THE
BRISTOL NATURALISTS' SOCIETY
FOURTH SERIES, VOL. VII, PART VII, 1934

528-537

- Tricimba* (*Notonaulax*) *cineta* Mg. S., St. Audries (A.), 18/8/22.
 " " *lineella* Fall. G., Awkley (A.), 11/9/23. S., Knowle (Ch.). On *Lycoperdon* (Puffball Fungus).

XXIX. AGROMYZIDAE.

(including PHYTOMYZIDAE.)

Small flies (1-4 mm.), caught by sweeping or, better still, bred from plants in which the mines of the larvae can be seen; most species seem to live in one particular genus of plants or in a group of closely allied genera; the configuration of the mine is typical for each species. Hering in *Tierwelt Deutschlands* Vol. 6, 1927, Hendel in *Fliegen der Palaearktischen Region* Vol. 39, 1931, and J. Collin in *E.M.M.*, 1911, p. 253. Wing like that of *Chloropidae*, but either two cross-veins and two basal cells present (*Phytomyza*), or one cross-vein near the base and two basal cells (most genera), or one cross-vein near the base and only the lower basal cell (*Pseudonapomyza*); costa with one break.

- Agromyza alnibetulae* Hend. (*albitarsis* Hend. nec Mg.). G., Cirencester (T.), 25/5/24. On Alder and Birch.
 " *humeralis* v. Ros. (*bellidis* Kalt.). S., Clevedon (W.), 8/02. On Aster and Daisy.
 " *nigripes* Mg. S., St. Audries (A.), 30/8/29. On Grasses.
 " *reptans* Fall. G. and S., common. On Pellitory and Stinging Nettle.
Cerodonta (*Ceratomyza*, *Odontocera*) *denticornis* Pz. G., Cirencester (T.); Aust (A.), 6/9/23; Hallen (A.), 11/9/28. S., Tickenham (A.), 16/9/22; Sharpham (A.), 22/8/22. On Grasses.
Dizygomyza flavifrons Mg. (*exigua* Mg.). S., Wells (L.). On *Caryophyllaceae*.
 " *geniculata* Fall. G., Olveston (A.), 30/7/22. Host unknown.
 " *lamii* Kalt. G., Painswick (W.), 12/6/93. On Dead Nettles.
 " *morosa* Mg. (*laterella* Zett.). G., Olveston (A.), 6/4/22. On Sedges.
Domomyza mobilis Mg. S., Sharpham (A.), 10/9/25. On Grasses.
Liriomyza flaveola Fall. G., Hallen (A.), 11/9/28. S., Sharpham (A.), 22/8/22. On Grasses.
 " *flavonotata* Hal. (*scutellata* Fall.). S., Taunton (P.); Long Ashton (A.), 2/6/34. Host unknown.
 " *perpusilla* Mg. G., Painswick (W.), 5/7/02. Host unknown.
 " *pusilla* Mg. G., Olveston (A.), 30/7/22; Aust (A.), 6/9/22. S., Tickenham (A.), 24/4/22. On Sow-Thistle and Hawkweeds.
Melanagromyza pulicaria Mg. G., Doverow (W.), 2/5/93; Cirencester (T.), 17/7/24. On Sow-Thistle and Dandelion.
Napomyza heringi Hend. G., Painswick (W.), 1899. On Ash.
 " *lateralis* Fall. G., Doverow (W.), 2/5/93. S., Wells (L.); Berrow (A.), 29/9/24. On heads of *Compositae*.
 " *nigriceps* v.d. Wulp. S., Backwell (A.), 25/4/26. Host unknown.
 " (*Phytagromyza*) *discrepans* v.d. Wulp. G., Kingsweston (A.), 2/5/26. Host unknown.
 " " *spinicauda* Hend. G., Shepperdine (A.), 30/7/24. Host unknown.
Phytomyza (*Chromatomyia*) *affinis* Mg. G., Bristol (C.); Cirencester (T.), 6/23. S., Wells (L.). On Thistle and Ox-eye Daisy.
 " " *albiceps* Mg. G., Bristol (B.), bred from *Cineraria*, 8/5/26; Bristol (A.), bred from *Chrysanthemum*, 8/1/22; Shepperdine (A.), 30/8/24. S., Tickenham (A.), 19/7/24. Polyphagous.

- Phytomyza* (*Chromatomyia*) *ilicis* Curt. G., Bristol (C.) bred from Holly, 30/5/04; Tockington (A.), 8/5/27. On Holly.
 " " *obscura* Fall. G. and S., fairly common. On Goutweed, Hedge Parsley and Angelica.
 " *albipennis* Fall. S., Prior Park, Bath (A.), 8/5/26. Host unknown.
 " *anthrisci* Hend. S., Keynsham (A.), 14/5/32. On Hedge Parsley.
 " *atricornis* Mg. (*geniculata* Mcq.). G., Bristol (A.), bred from Sow-Thistle, 22/6/30. Polyphagous.
 " *conyzae* Hend. G., Edgehill (W.), 19/6/04. On Fleabane.
 " *flavicornis* Fall. G., Cirencester (T.), 12/5/24. S., Portishead (A.), 15/10/22. On Stinging Nettle.
 " *mili* Kalt. (*cinereifrons* Hardy). G., Cirencester (T.), 3/8/23. On Grasses.
 " *ranunculi* Schrk. var: *albipes* Mg. G., Cirencester (T.), 17/8/23; Olveston (A.), 10/6/22; Hallen (A.), 12/7/24. S., Clevedon (W.), 29/8/02.
 " " var: *flava* Fall. (*terminalis* Mg.). G., Bristol (C.); Stone (A.), 30/7/28. S., Wells (L.).
 " " var: *flavoscutata* Fall. (*notata* Mg.). G., Bristol (C.); Blaise Castle (A.), 4/21; Olveston (A.), 2/5/22; Stone (A.), 1/5/27. S., Sharpham (A.), 22/4/24.
 " " var: *praecox* Mg. (*zetterstedti* Schin.). S., Nailsea (A.), 21/4/27. All on Buttercups and Anemone.
 " *rufipes* Mg. G., Painswick (W.). On Cabbage.

XXX. CARNIDAE.

(AGROMYZIDAE part.)

Very small flies (1-2 mm.). The genus *Meonura* contains flies whose larvae are saprophagous, the genus *Carnus* has only one species of which the larvae are parasitic on Birds. The 4th vein (MA₁) is very faint; the costa is broken in two places. There are only two cross-veins and no basal cells in *Meonura*, and only one cross-vein in *Carnus* in which the wing is reduced. J. Collin in *E.M.M.*, 1930, p. 82.

- Meonura vagans* Fall. G., Shepperdine (A.), 30/7/24.

XXXI. MILICHIDAE.

(AGROMYZIDAE part.)

Very small flies (1-3 mm.). Costa broken in two places, costa reaches the apex of the 4th vein (MA₁), two basal cells present and the three normal cross-veins. Some attach themselves to larger Insects and Spiders to travel from place to place (phoresic). The larvae are coprophagous. J. Collin in *E.M.M.*, 1911, p. 233.

- Desmometopa sordida* Fall. (*m-atrum* Mg.). G., Shepperdine (A.), 11/8/24.
Madiza glabra Fall. G., Bristol (A.), on window, 17/9/33.
Phyllomyza securicornis Fall. G., Hallen (A.), 8/6/29. S., Sharpham (A.), 16/8/25.

PUPIPARA.

(HIPPOBOSCIDAE and NYCTERIBIIDAE.)

These form an aberrant group of the Diptera Cyclorapha. The imagines feed on the blood of warm-blooded vertebrates. The larvae live inside the female until they are about to pupate, so that the female practically brings forth pupae. The imagines are apterous or have reduced wings; they are flat and horny; the eyes, which are large in some species, are reduced to ocelli in others, and disappear altogether in one genus; the antennae have only two