

Notes on the Diptera of Somerset.

PART III.¹

BY H. J. CHARBONNIER.

THIS present portion of the list deals with the TACHINIDAE, MUSCIDAE and ANTHOMYIDAE.

The TACHINIDAE are a large and very difficult group of medium to very large flies, covered with numerous spines and hairs; mostly grey, brown, or black insects; only one species is of a brilliant green, *i.e.* *Gymnochaeta viridis*.

In the larval stage they are, as far as known, parasitic in the bodies of other insects; often in the larvae of lepidoptera, sometimes on the early stages of hymenoptera; sometimes on beetle larvae, and one genus, *Onesia*, has been discovered by M. D. Keilin to be parasitic in earthworms.

The MUSCIDAE form a small group, containing many well known flies, such as the Blue-bottle, and House-fly and the brilliant green fly *Lucilia sericata*, whose larva is the dreaded Sheep-maggot, which sometimes does much damage in this and other European countries, and has unfortunately been introduced into Australia. Several of these flies sting both men and cattle.

Most of the larvae live in decaying vegetable and animal matter; some are carnivorous, devouring other fly larvae, and one species has been proved by M. D. Keilin to be parasitic in earthworms, *i.e.* that of *Pollenia rudis*.

1. Part I was printed in the *Proceedings*, Vol. LXI, 189-204; Part II in Vol. LXIII, 162-170.

The ANTHOMYIDAE are a very numerous group, and some of the species are very difficult to determine; they are mostly small to medium grey flies, and although they do not sting they are a great pest by worrying men and cattle. Many of the larvae live in decaying matter; some live in roots; some are leaf-miners, and many are carnivorous devouring other larvae; the perfect flies are also sometimes predacious.

There have been many changes in the nomenclature of these groups, but I have followed, as in Parts I and II, Verrall's list of 1901.

I am greatly indebted to Major W. S. Patton, I.M.S., (P.) of Stoke St. Gregory, for much kind help, and valuable records; and also to Mr. A. E. J. Carter of Monifieth, for identifying many difficult species for me.

Besides the above I have had much assistance from the following who have kindly sent me specimens collected in the county:—(A.) Mr. H. Audcent; (G.) Mr. G. C. Griffiths, F.E.S.; (H.) Mr. A. E. Hudd, F.S.A., F.E.S.; (J.) Colonel T. Jermyn; (R.) the Rev. S. O. Ridley; (W.) the late Mr. C. J. Watkins, whose records are from his collection in the Bristol Museum. (V.H.) means that the species is recorded in the *Victoria County History, Somerset*.

TACHINIDAE.

Mascicera pratensis, Mg. Dunster (A); pupae found in nest of *Bombus*.

Gymnochaeta viridis, Fln. Shapwick (J). Stoke St. Gregory (P).

Exorista leucorum, Mg. Leigh Woods (H).

„ *vetula*, Mg. Leigh Woods (H).

„ *fimbriata*, Mg. Dunster (A).

„ *cheloniae*, Rond. Kewstoke. (Wain). Bred from larvae of *arctia caja*.

Tachina rustica, Mg. Near Taunton (P).

„ *tibialis*, Fln. Ashcott (J).

Blepharidea vulgaris, Fln. Willsbridge, in September.

Aporomyia dubia, Fln. Near Taunton (P).

Phorocera pumicata, Mg. Weston-super-Mare (J).

Gonia fasciata, Mg. Leigh Woods (W).

- Monochaeta leucophaea*, Mg. Near Taunton (P).
Macquartia chalconota, Mg. Near Taunton (P).
Oliveria lateralis, F. Common everywhere.
Thelairia leucozona, Pz. Cheddar (G). Near Taunton (P).
Micropalpus vulpinus, Fln. Cheddar, in September.
Erigone radicum, F. Axbridge (R). Leigh Woods (H).
 „ *strenua*, Mg. Leigh Woods (H).
 „ *vagans*, Mg. Banwell (H).
 „ *rudis*, Fln. Near Taunton (P).
Echinomyia grossa, L. Banwell and Cheddar (J).
 „ *fera*, L. Minehead (V.H.).
Fabricia ferox, L. Wellington (V.H.). Portishead (C. Bartlett).
Servillea lurida, F. Axbridge (R). Bridgwater (H. H. Slater).
 „ *ursina*, Mg. Clevedon (W). Leigh Woods.
Plagia ruralis, Fln. Near Taunton (P).
Thryptocera crassicornis, Mg. Near Taunton (P). Mr. A. E. Hudd has bred this species from larvae of *Tortrix podana*.
Siphona cristata, F. Cheddar (G). Portishead (H). Near Taunton (P).
 „ *geniculata*, Deg. Shepton Mallet, Cheddar, Taunton; common.
Trixa oestroidea, Dsv. Woods at Hutton (J).
Melanophora roralis, L. Taunton, in June.
 „ *atra*, Mcq. Leigh Woods (H). Nailsea, in July.
Onesia cognata, Mg. Leigh Woods (H).
 „ *sepulchralis*, L. Stoke St. Gregory (P). Cheddar (H). Nailsea.
Sarcophaga carnaria, L. Common everywhere.
 „ *albiceps*, Mg. Cheddar.
 „ *atropos*, Mg. Keynsham and Cheddar.
 „ *agricola*, Mg. Freshford.
 „ *haemorrhoea*, Mg. Shepton Mallet.
 „ *nurus*, Rond. Cheddar.
 „ *infantula*, Rond. Freshford.
Nyctia hallerata, Pz. Taunton (P). Brent Knoll (J). Clevedon (W).

Metopia campestris, Fln. Leigh Woods, in August.

Dexia vacua, Fln. Cheddar, in July and August.

MUSCIDAE.

Stomoxys calcitrans, L. Everywhere in Autumn.

Haematobia irritans, L. A regular pest on young cattle (P).

„ *stimulans*, Mg. Common.

Pollenia rudis, F. = Cluster-fly in America. Very common, hidden away indoors in Winter. M. D. Keilin has described the larva, which is parasitic in earthworms.

„ *vespillo*, F. Corfe, near Taunton; rare (P).

Myiospila mediatubunda, F. Batheaston (V.H.). Taunton.

Graphomyia maculata, Scop. Cheddar and other places. Sometimes common.

Musca domestica, L. The House-fly. Everywhere.

„ *corvina*, F. = *autumnalis* (DeG). Everywhere.

Cyrtoneura stabulans, Fln. Common.

„ *pascuorum*, Mg. Leigh Woods (H).

Morellia hortorum, Fln. Very common.

„ *curvipes*, Mcq. Shepton Mallet.

„ *simplex*, Lev. Shepton Mallet (larvae in old beehive). Taunton (P).

Mesembrina meridiana, L. Very common; larva carnivorous, M. D. Keilin.

Pyrellia eriophthalma, Mcq. Stoke St. Gregory (P).

„ *lasiophthalma*, Mcq. Batheaston (V.H.). Cheddar (H).

„ *cyanicolor*, Zett. Dunster (A).

„ *cadaverina*, L. Batheaston (V.H.). Verrall said we do not get the true *cadaverina* in Britain, our species is *P. oenea*, Zett.

Protocalliphora groenlandica, Zett. Cheddar.

„ *azurea*, Fall. Leigh Woods (H). Milborne Port (J). Taunton (P).

Calliphora vomitoria, L. The common Blue-bottle.

„ *erythrocephala*, Mg. The common Blue-bottle.

Euphoria cornicina, F. Very common.

Lucilia illustris, Mg. Shepton Mallet.

„ *sylvarum*, Mg. Clevedon (W).

- Lucilia nobilis*, Mg. Leigh Woods (H) and (G).
 „ *caesar*, L. Common everywhere.
 „ *sericata*, Mg. Common; the larva is the Sheep-
 maggot.

ANTHOMYIDAE.

- Polieta lardaria*, F. Very common everywhere.
 „ *albolinea*, Fln. Leigh Woods (H). Axbridge (R).
Hyetodesia mystica, Mg. Near Taunton (P).
 „ *signata*, Mg. Leigh Woods (H).
 „ *scutellaris*, Fln. Keynsham. Leigh Woods (H).
 „ *leucorum*, Fln. Clevedon (W).
 „ *basalis*, Zett. Clevedon (W).
 „ *erratica*, Fln. Freshford. Cheddar (G).
 „ *pallida*, F. Batheaston (V.H.). Leigh Woods
 (H). Freshford. Taunton (P).
 „ *variegata*, Mg. Leigh Woods (G). Taunton (P).
 „ *semicinerea*, Wied. Leigh Woods (H).
 „ *perdita*, Mgn. Leigh Woods (H).
 „ *Goberti*, Mik. Leigh Woods (H).
Aleostylus flaveola, Fln. Clevedon (W).
 „ *simplex*, W. Leigh Woods (H). Freshford.
Mydaea urbana, Mg. Clevedon (W). Near Taunton (P).
 Leigh Woods (H).
 „ *pagana*, F. Freshford.
 „ *impuncta*, Fln. Freshford.
Spilogaster uliginosa, Fln. Near Taunton (P).
 „ *pertusa*, Mg. Nailsea, in July.
 „ *nigrinervis*, Zett. Near Taunton (P). Clevedon
 (W).
 „ *duplicata*, Mg. Clevedon (W), in August.
 „ *communis*, Dsv. Common everywhere.
 „ *quadrum*, F. Leigh Woods (H).
Sphocolyma inanis, Fln.* Near Taunton (P). Bridgwater
 (H. H. Slater).
Limnophora septemnotata, Zett. Near Taunton (P).
 „ *denigrata*, Mgn. Taunton (P).
Hydrotea dentipes, F. Common everywhere.
 „ *ciliata*, F. Batheaston (V.H.).

- Hydrotea irritans*, Flin. Common everywhere.
Ophyra leucostoma, W. Taunton (P), locally common.
Trichopticus pulcher, Mde. Shepton Mallet, in April.
Hydrophoria conica, W. Batheaston (V.H.). Freshford.
Hylaemyia puella, Mg. Near Taunton (P).
,, *nigrimana*, Mg. Brockley (J).
,, *strigosa*, F. Common.
Mycophaga fungorum, Deg. Near Taunton (P).
Anthomyia pluvialis, L. Common.
,, *radicum*, L. Common.
,, *procellaris*, Rond. Taunton (P). Common. (See
E. M. M., 1912, p. 194).
Chortophila albescens, Zett. } Swinford, in June. The flies were
,, *trapezina*, Zett. } backing into burrows of *Halictus*
 } *nitidusculus*, for egg laying.
Phorbia cepetorum, Mde. Shepton Mallet; common.
,, *brassicæ*, B. Wellington (F. Milton); bred from
 swedes.
,, *histrion*, Zett. Leigh Woods (H).
Pegomyia betæ, Curt. Leigh Woods (H); has been bred
 from mined dock leaves.
,, *nigritarsis*, Zett. Leigh Woods (H).
,, *bicolor*, W. Leigh Woods (H). Taunton (P).
,, *ulmaria*, Rond. Taunton (P). (See E. M. M.,
 1913, p. 133).
Homalomyia canicularis, L. Lesser House-fly. Very com-
 mon.
,, *armata*, Mg. Taunton (P).
,, *scalaris*, F. Common everywhere.
Caricea humilis, Mg. Cheddar (G). Near Taunton (P).
,, *tigrina*, F. Leigh Woods (H) and (G). Freshford.
Cænosia sexnotata, Mg. Leigh Woods (H).
,, *tricolor*, Meade. Weston-super-Mare (J).
Lispe tentaculata, Deg. Shepton Mallet; preying on larvae
 of *Chironomus*, in a small pond.
Fucellia fucorum, Flin. Clevedon (W).
,, *maritima*, Hal. Weston-super-Mare (J).