

(but not lying horizontally); and as viewed from above (with distal end to left).

Fig. 5. ♂ Genitalia of *T. mintha mintha* (Geyer).

Fig. 6. ♂ Genitalia of *T. mintha piquetbergensis* Dickson. (N.E. of Moorreesburg, C.P.).

Fig. 7. ♂ Genitalia of *T. magna* (van Son). (Steynsburg, C.P. (Mrs R. J. Southey)).

Figures 21 times natural size.

Photo: H. N. Wykeham.

Some Records of Bred Tachinidae

By T. H. FORD

Since the untimely death of Leonard Parmenter, the pages of the "Record" have held very few references to the Tachinid flies, and it is hoped that this article will be of interest to those lepidopterists who breed these parasites from time to time. Over the past few years the following have been bred from various sources.

Breeding data and determinations are by the writer unless indicated otherwise.

Blepharomyia amplicornis Zett. 1 male, 1 female from a larva of *Lygris populata* Linn. May 1970, Sheffield.

Wagneria lentis Meigen, 3 from a larva of *Anchoscelis helvola* Linn., July 4, 1969, Sheffield (det. D. M. Ackland).

Campylochaeta inepta Meigen, 2 males from an unidentified geometer larva, June 2, 1970, Symonds Yat, Herefordshire. 1 male from an unidentified larva by J. Culpin, March 1973, Derbyshire.

Ernestia consobrina Meigen, 1 female from a larva of *Ceramica pisi* Linn., June 30, 1971. Catcliffe, Rotherham.

Linnaemyia vulpina Fallen, 4 males Grenoside, Sheffield. 1 male Skipwith Common, Yorkshire. All from larvae of *Lycophota varia* Villers.

Compsilura concinnata Meigen, 1 from a larva of *Phigalia pilosaria* Dennis & Schiffermuller, July 25, 1969, Sheffield (det. D. M. Ackland). 1 from a larva of *Apatele megacephala* Dennis & Schiffermuller, September 1965, Catcliffe, Rotherham. 1 male and 1 female from a pupa of *Aglaia urticae* Linn. July 13, 1970, Catcliffe, Rotherham. In spite of having bred this common species on three occasions, I have not yet taken the imago in the field.

Actia bicolor Meigen, 1 male bred from an unidentified *Eupithecia* larva by F. Harrison, 1973, Via Gellia, Derbyshire.

Siphona geniculata Degeer, Several bred from a larva of *Ceramica pisi* Linn., August 2, 1972, Catcliffe, Rotherham.

Voria trepida Meigen, 1 male from larva of *Diataraxia oleracea* Linn., August 8, 1970 Catcliffe, Rotherham.

Nemorilla floralis Fallen, 3 males, 2 females from a pupa of *Plusia gamma* Linn. September 8, 1972, Catcliffe, Rotherham. The cocoon containing the host pupa and parasite puparia was brought to me by a local schoolgirl, Miss Tracey Smith, and contained the skin from the final larval stadium, to which were attached eight eggs of the parasite, one on each of the epicranial plates and the remaining six to the first segment behind the head of the caterpillar, well out of reach of the jaws. Since only five of the parasites matured it would appear that even the parasitic mode of life is not without its dangers.

Carcelia gnava Meigen, 1 male and 1 female from a larva of *Malacosoma neustria* Linn., July 2, 1971, Capel Bangor, Cardiganshire.

Carcelia lucorum Meigen, 1 male, 2 females from a larva of *Phragmatobia fuliginosa* Linn. June 1971, East Moor, Derbyshire. (Parasites bred and host determined by B. Statham).

Zenillia nemea Meigen, 1 male, 2 females from larva of *Phlogophora meticulosa* Linn., September 1964, Looe, Cornwall. Abundantly from larvae of *Abraxas grossulariata* Linn., May 1965, Rotherham. 1 male from a larva of *Aglais urticae* Linn., July 1965, Catcliffe, Rotherham. 1 male from a larva of *Diataraxia oleracea* Linn., April 10, 1972, Chesterfield, Derbyshire. (Parasite bred and host determined by B. Elliott).

Zenillia longicauda Wainwright, 2 from larva of *Hydriomena furcata* Thunb., July 24, 1969, Totley, Sheffield. (det. D. M. Ackland).

Eumea hortulana Meigen, 1 female from a larva of *Apatele psi* Linn., July 4, 1970, Sheffield.

Pales pavidus Meigen, 1 male from a larva of *Alsophila aescularia* Dennis & Schiffermuller, July 28, 1971, Youghal, Derbyshire.

A few of these records, those which constitute Vice County or County Records for Yorkshire have appeared in the Annual

Report of the Yorkshire Naturalists' Union, in "The Naturalist" for 1972.

I should like to thank all correspondents who provided material, Mr D. M. Ackland for determining specimens sent to the Hope Department, University Museum, Oxford; and also Mr Peter Skidmore and Mr P. J. Chandler for help with specimens and literature.

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JUNE 1973

The Pupa of *Pieris krueperi* Stgr. (Lep.: Pieridae)

By JOHN G. COUTSIS, B.A., M.A.RCH

The pupa of *Pieris krueperi* has a length of approximately $5/8$ of an inch and is similar in shape to that of *Pieris rapae* L.

Dorsum and sides light grey with a slight greenish tinge, shot with numerous black dots and mottled with dark grey-green and light cream areas, the latter situated mostly along the raised parts.

Wing cases grey-green with minute black irrorations and a series of small black dots along the outer margin.

Ventrum light green.

Specimens bred from eggs laid in the wild on *Alyssum saxatile* L., on Mt. Imittos, Attica, Central Greece.

References

- Coutsis, J. G. (1970). Descriptions of the egg and larva of *Pieris krueperi* Stgr (Lepidoptera: Pieridae) Entomologist, **103**: 75-76.

FURTHER OBSERVATIONS ON AUTOGRAPHA BRACTEA D. & S. IN GLOUCESTERSHIRE IN 1972 AND 1973. — It would seem that *A. bractea* has indeed taken up residence in Gloucestershire. Further to Mr R. P. Demuth's report on this species in the September issue of the *Record* I would like to add that I took a fresh specimen in the Forest of Dean in 1972 and in 1973 I had two specimens in a m.v.l. trap which I run regularly at Avening Glos.; one on July 19th and the other on July 20th. A most welcome visitor, and it is to be hoped, one that has come to stay.—J. NEWTON, 11 Oxleaze Close, Tetbury, Glos.



Ford, T H. 1973. "Some records of bred Tachinidae." *The entomologist's record and journal of variation* 85, 288–290.

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