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XXI.

A PRELIMINARY LIST OF HERTFORDSHIRE DIPTERA. 1908

By A. E. GIBBS, F.L.S., F.E.S., and PHILIP J. BARRAUD, F.E.S.

*Read at Watford, 23rd April, 1907.*

IN presenting to the Society the following list of Diptera observed in our County, we wish to express our hearty thanks to the Rev. E. N. Bloomfield, M.A., F.E.S., of Guestling, Hastings, who has given us very great assistance in the identification of specimens, and valuable advice in the preparation of this list; to Mr. E. E. Austen, of the British Museum (Natural History), who has rendered most useful help during the examination of the collections in the Museum; also to the Hon. N. Charles Rothschild, M.A., F.L.S., F.Z.S., who kindly prepared the list of Pulicidæ met with at Tring, and to others who have sent us records of captures.

By far the greater number of records have been obtained from the very extensive collection of flies captured by Mr. Albert Piffard, of Felton, Boxmoor, which is now in the British Museum. This collection was formed during the last decade of the nineteenth century, and contains many thousands of specimens which are carefully labelled with the date and place of capture, and are mostly named by Mr. Piffard. Nearly all the specimens were taken in the immediate vicinity of his home. This mass of material is being gradually incorporated in the new collection of British Diptera at the Museum, each specimen before finding its permanent resting-place in that collection, being examined and its determination verified by Mr. E. E. Austen. For our knowledge of the existence of this collection we are indebted to the Rev. E. N. Bloomfield.

In the following list all the Felton records, except in a few cases where another observer's name is attached, are Mr. Piffard's, and the names of flies taken by him in other localities are followed by his initials (A.P.). The larger number of his specimens are in a cabinet containing the unincorporated accessions, and have not yet been critically examined by Mr. Austen. These are marked in our list with an asterisk (\*), and the determination is Mr. Piffard's. When several examples of the same species were found, we have mentioned the date of the earliest capture only. When a species is mentioned as occurring in Hertfordshire by Mr. G. H. Verrall in his book on 'British Flies,' a work in course of publication, we have appended the word 'Verrall' to Mr. Piffard's record. Doubtless these specimens have been examined by Mr. Verrall. A considerable proportion of those

species marked \* are not contained in Mr. Verrall's British list, or have only been doubtfully included, and it is probable that when these are examined by specialists many will prove to be known as British species under a different name.

A few records have been extracted from papers in our 'Transactions,' the back volumes of which have been searched for the purpose. In these cases the short title 'Watford Trans.' or 'Herts Trans.' follows the name of the observer. For the records from St. Albans, unless otherwise indicated, Mr. Gibbs (A.E.G.) is responsible; those flies taken in his own garden have the locality given as "Kitchener's Meads."

The Hon. N. C. Rothschild has drawn our attention to the fact that several species of fleas which undoubtedly occur in the County do not appear to have been captured in it, that of the badger and of the common domestic pigeon, for instance, being so far unobserved.

There are doubtless many common species of Diptera to be met with in the County which are as yet unrecorded, and we shall be glad to receive any information which will enable us to extend the present list.

## ORTHORRHAPHA.

### NEMATOCERA.

#### PULICIDÆ.

The following species of Pulicidæ have been observed by the Hon. N. C. Rothschild at Tring:—

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| <i>Pulex irritans</i> , <i>L.</i>  | <i>C. hirundinis</i> , <i>Curt.</i> (from house-martin).   |
| <i>Ctenocephalus canis</i> , <i>Curt.</i>  | <i>C. fasciatus</i> , <i>Bosc.</i>   |
| <i>C. felis</i> , <i>Bouché.</i>   | <i>C. mustelæ</i> , <i>Dale.</i>   |
| <i>C. erinacei</i> , <i>Bouché.</i>  | <i>C. penicilliger</i> , <i>Grube.</i>   |
| <i>Spilopsyllus cuniculi</i> , <i>Dale.</i>  | <i>C. garei</i> , <i>Rothsch.</i>  |
| <i>Ctenophthalmus sorecis</i> , <i>Dale.</i>   | <i>C. styx</i> , <i>Rothsch.</i>   |
| <i>C. pentacanthus</i> , <i>Rothsch.</i> (also at Felden by Mr. A. Piffard).                   | <i>C. Walkeri</i> , <i>Rothsch.</i>  |
| <i>C. agyrtes</i> , <i>Heller.</i> Sub-sp. <i>nobilis</i> , <i>Rothsch.</i> (from water-vole). | <i>C. gallinulæ</i> , <i>Dale.</i>   |
| <i>C. bisoctodentatus</i> , <i>Kolen.</i>  | <i>C. fringillæ</i> , <i>Walker.</i>   |
| <i>C. dasynemus</i> , <i>Rothsch.</i>  | <i>Ichnopsyllus elongatus</i> , <i>Curt.</i> (from noctule bat).                                       |
| <i>Typhloceras poppei</i> , <i>Wagner.</i>   | <i>I. octactenus</i> , <i>Kolen.</i> ( <i>jubatus</i> , <i>Wagner</i> ) (especially from pipistrelle). |
| <i>Ctenopsyllus musculi</i> , <i>Duges.</i>  | <i>I. simplex</i> , <i>Rothsch.</i>  |
| <i>C. spectabilis</i> , <i>Rothsch.</i>  | (? <i>octactenus</i> , <i>Wagner</i> , <i>nec Kolen.</i> ) (from Natterer's bat).                      |
| <i>Hystrihopsylla talpæ</i> , <i>Curt.</i>   | <i>I. pentactenus</i> , <i>Kolen.</i>  |
| <i>Ceratophyllus sciurorum</i> , <i>Bouché.</i>  | <i>I. hexactenus</i> , <i>Kolen.</i>   |
| <i>C. gallinæ</i> , <i>Schrank.</i>  |  |

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- Cænia* sp.—\*Felden, 5. x. 98.  
*Scatella quadrata*, *Fln.*—  
 Felden, 15. xi. 96.  
*S. sibilans*, *Hal.*—\*Felden,  
 27. xi. 98.  
*S. sorbillans*, *Hal.* (*paludum*,  
*Mg.*)—\*Felden, 24. x. 98.  
*S. stagnalis*, *Fln.*—\*Felden,  
 26. ix. 98.  
*S. ? crassicosta*, *Beck.*—\*Felden,  
 10. vi. 99.  
*Scatophila despecta*, *Hal.*—  
 \*Felden, 1. x. 98.  
*S. ? pallerata.*—\*Felden,  
 14. viii. 99.  
*S. spp.*—\*Felden, 19. x. 97.

## DROSOPHILIDÆ.

- Drosophila melanogaster*, *Mg.*—  
 \*Felden, 1. iv. 99.  
*D. funebris*, *F.*—Felden,  
 6. xi. 92.

## CHLOROPIDÆ.

- Meromyza pratorum*, *Mg.*—  
 \*Felden, 5. vii. 99.  
*M. ? saltatrix*, *L.*—\*Felden,  
 30. vi. 99.  
*M. variegata*, *Mg.*—\*Felden,  
 12. vii. 99.  
*M. læta*, *Mg.*—Felden,  
 29. vi. 93.  
*M. reflecta* (?).—\*Felden,  
 7. vii. 99.  
*Chlorops* (*Centor*) *cereris*, *Fln.*  
 —\*Felden, 5. vi. 99.  
*C. (Diplotoxa) messoria*, *Fln.*—  
 \*Felden, 6. vii. 99.  
*C. tæniopus*, *Mg.*—Bishops  
 Stortford, *J. C. Mann* in  
 'Herts Trans.'  
*C. sp.*—\*Felden, 21. v. 99.  
*Oscinis ? maura*, *Fln.*—\*Felden,  
 30. vi. 99.  
*O. sp.*—\*Felden, 4. vii. 99.  
*Elachyptera brevipennis*, *Mg.*—  
 Gadesbridge, *A.P.*, 21. xi. 92.  
*E. cornuta*, *Fln.*—Felden,  
 11. ii. 97.

## MILICHIDÆ.

- Phyllomyza flavitarsis*, *Mg.*—  
 \*Felden, 1. vi. 98.  
*P. tarsalis* (?).—\*Felden,  
 22. v. 99.

## AGROMYZIDÆ.

- Agromyza nigripes*, *Mg.*—  
 \*Felden, 10. iv. 97.  
*A. carbonaria*, *Ztt.*—\*Felden,  
 23. vi. 99.  
*A. reptans*, *Fln.*—\*Felden,  
 24. v. 99.  
*A. ? Schineri*, *Giraud.*—  
 \*Felden, 31. viii. 98.  
*A. cunctans*, *Mg.*—\*Felden,  
 9. viii. 99.  
*Leucopis* spp.—\*Felden,  
 9. iv. 97 and 7. iii. 99.  
*Ochthiphila aridella*, *Fln.*—  
 \*Felden, 30. vi. 99.  
*Schœnomyza litorella*, *Fln.*—  
 \*Felden, 1. x. 98.

## PHYTOMYZIDÆ.

- Phytomyza albipennis*, *Fln.*—  
 \*Felden, 22. iv. 97.  
*P. flavo-scutellata*, *Fln.*—  
 \*Felden, 20. xi. 96.  
*P. lateralis*, *Fln.*—\*Felden,  
 10. i. 93, "from larvæ mining  
 in leaves of greenhouse  
*Cineraria.*"  
*P. flavomaculata*, *Fln.*—  
 \*Felden, 27. iv. 93.  
*P. (Chromatomyia) obscurella*,  
*Fln.*—\*Felden, 27. iv. 93.

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25. iii  
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S. vapor  
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S. pusill  
24. xi  
Limosina  
\*Feld  
L. vagan  
11. ii. 9  
L. ferrugi  
26. ii. 9  
L. fontin  
21. xi  
L. lutosa,  
23. iii. 9  
L. limosa,  
1. iii. 97