

Syrphids ~~and~~
No Librach, Teph. Camps
B

CAMBS

CHIPPENHAM FEN 13/8/86 TL6469

Fen, damp woodland, carr - little time for
collecting!

Syrphids

Xylota abiens

Sciomyzidae

Pherbellia griseola
Limnaea paludicola
Xyphosia militaria
Pherbellia cinerella
Tetanocera clata
T. hyalipennis

Hybos femoratus
Argyra argentina
A. diaphana
Mercostomus plagiatus
Sciapus loewi

Auleates

Vespa crabro - nesting in nest boxes

Chloromyia ~~clavicornis~~ speciosa
Platycephala plaurans

Anthomyza ~~gracilis~~ ^{collini} ~~scutellata~~
Oscarella trochanterata
Geomyza balach/comb.
Chaetorellia jaceae
Merina fronderantia
galls of *Lipara lucens*
Lyciella decipiens
L. subfasciata
Therwa pusilla

Calyptrates

Lipsocephala erythroscera
Spaniochaeta dorsalis

Dalys

add *Scorpin longulus* ✓ (2011)

STANGROUND

2/5/89.
3/5/89

TL 220 976

Picketburgh

Nomada marshamella
" " gooderiana
habriciana → (bicolor clepts!)

Andrena haemorrhoa
clarkella.

scotica

pubescens

Lasius glossum calceatum ✓

~~laevigatum~~ xanthopus ✓

Anthophora pilipes

melecta armata

Bombus pascuorum

lapidarius

terrestris

ruderals

Penthyrus barbutellus

? ~~Andrena~~ sp. proceris perthurbator

Vespa germanica (18)

Apis mellifera

Sphecodes ~~monticola~~ (large sp.)

Sphecodes ~~variegatus~~ / affinis var.

Bombus pratorum

? B. ruderals

Nomada bifida ✓

Andrena nigroaenea (25)

Lasius glossum villosus 26

albipes 27 ✓ ~~albipes~~

Bombus hortorum 28.

~~Bombus~~

partinax
Enotalis abusivus - small nos

Chelusia grossiventris - ^{mod} small nos on ragwort & vegn beside ditch

albicans

bergerianus

fraterna

pratensis

pagana

vernalis

metaglyphus luriger

Enotalis partinax

Synaldis pueris

Platych albinarum

Paragus **haemorrhoides**

Sphaerophoria scripta

Helophilus pardus

Enotalis intricatus

Nesaspis **reticulosa**

Syrphus ribesii

Thyreus (plebeia)

late list

Alan Stubbs

7/5/89

Bombus lucorum

Micrandrena sp. (1) minutula

Sphecodes (3) crassus N

Lasius tumidus (32)

Lasius ~~minutus~~ nitidus

Lasius morio (34)

Syrphids
w/.
as 28.4.90
To
18.8.90
on me
Card.

J Cole (Diptera only) 26/2/92
NCC W mids

O = additions since
26/2/92

CAMBS

STANGROUND GULLET

HYMENOPTERA &
DIPTERA 1989 & 1990

* = notable/RDB

DIPTERA

TL2297

- grassland, bracken,
marsh

Ptychopteridae

Ptychoptera albimana 23/4/90

Bibionidae

Bibio marci 28/4/90

B. johannis 18/3/90, 28/4/90, 18/5/90

Dilophus febrilis 18/8/90

Stratiomyidae

Beri vallata 7/7/90

Microchrysa polita 7/7/90

Chloromyia formosa 7/7/90, 5/8/90

Pachygaster leachella 7/7/90, 14/7/90

P. ater 7/7/90

* Vanogyia tenuicornis 7/7/90

Opodontha viridula 18/8/90

Microchrysa flavicornis 7/7/90, 18/8/90

Tabanidae

Chrysops relictus 7/7/90, 5/8/90

Haematopota crassicornis 7/7/90

Asilidae

Leptogaster cylindrica 26/5/90, 2/6/90, 7/7/90, 5/8/90

Therevidae

* Thereva plebeia ^{spring} 1989 seen, 28/4/90

T. nobilitata 7/7/90

Dolichopodidae

Argyra leucocephala 7/7/90 ^{28.4.90}

Sciapus wiedemanni 2/6/90

Lonchopteridae

Lonchoptera lutea 5/8/90

Eudorylus obscurus 14/7/90

Syrphidae

Platycheirus albimanus 1989, 28/4/90, 7/7/90, 5/8/90, 18/8/90

P. angustatus 28/4/90, 2/6/90, 7/7/90

P. manicatus 28/4/90, 26/5/90, 2/6/90, 5/8/90, 18/8/90

P. scambus 26/5/90

P. scutatus 26/5/90

P. clypeatus 2/6/90, 7/7/90, 14/7/90, 5/8/90, 18/8/90

P. fulviventris 2/6/90

Melanostoma mellinum 7/7/90, 5/8/90

M. scalare 7/7/90, 14/7/90

Paragus haemorrhous 3/5/89, 26/5/90, 2/6/90, 18/8/90

Syrphus ribesii 1989, 7/7/90, 14/7/90, 5/8/90

Sphaerophoria scripta 1989, 26/5/90, 2/6/90, 7/7/90, 14/7/90, 5/8/90, 18/8/90

S. rueppellii 7/7/90, 5/8/90, 18/8/90

Metasyrphus luniger 1989, 2/6/90, 7/7/90

M. corollae 2/6/90, 7/7/90

Episyrphus balteatus 2/6/90, 7/7/90, 14/7/90, 18/8/90

Chrysotoxum verrallii 7/7/90

Scaeva pyrastris 14/7/90

Syrphus torvus 18/8/90

- #### Empididae
- Pachymeria femorata
 - Rhamphomyia subaenescens
 - R. sulcata
 - Hilara subpollinosa 7/7/90

Librach.
Teph.
no empids.
6

Stenogramma 2

- Cheilosia vernalis* 1989, 22/4/90, 14/7/90
Cheilosia albifrons 1989, 22/4/90, 26/5/90
C. bergenstammi 7/5/89
C. fraterna 1989
C. griseiventris 2/5/89, 7/5/89, 31/3/90
C. grossa 18/3/90, 31/3/90
C. pagana 1989, 31/3/90, 14/7/90
C. proxima 1989, 5/8/90
Neoscia tenuis 26/5/90, 2/6/90, 5/8/90, 18/8/90
N. meticulosa 3/5/89, 26/5/90
N. podagrica 26/5/90, 7/7/90
* *N. interrupta* 7/7/90
Chrysogaster hirtella 26/5/90
Rhingia campestris 26/5/90, 7/7/90
Pipizella varipes 2/6/90, 7/7/90
Eristalis abusivus 2/5/89
~~*E. arbutorum*~~
E. pertinax 1989, 18/3/90, 31/3/90, 18/8/90
E. tenax 18/3/90, 31/3/90, 22/4/90, 26/5/90, 7/7/90, 14/7/90, 5/8/90, 18/8/90
E. arbutorum 31/3/90, 22/4/90, 7/7/90, 5/8/90, 18/8/90
E. horticola 7/7/90
E. nemorum 14/7/90
E. intricarius 1989, 31/3/90, 26/5/90, 5/8/90
Eristalinus sepulchralis 26/5/90, 18/8/90
Anasimyia contracta 2/6/90
* *A. interpuncta* 26/5/90
Helophilus pendulus 26/5/90, 18/8/90
H. hybridus 31/3/90
Parhelophilus versicolor 7/7/90
Tropidia scita 5/8/90
Syritta pipiens 1989, 26/5/90, 2/6/90, 7/7/90, 14/7/90, 5/8/90, 18/8/90
* *Neoscia gericulata* 7/7/90

Tephritidae

- * *Urophora solstitialis* 26/5/90, 2/6/90
U. stylata 7/7/90
Paroxyna misella 7/7/90, 14/7/90
P. absinthii 7/7/90, 14/7/90
Terellia ruficauda 7/7/90, 14/7/90
T. serratulae 7/7/90, 14/7/90
Xiphosia miliaria 7/7/90, 14/7/90
Tephritis hyoscyami 18/8/90
T. vespertina 7/7/90
Euleia heraclei 7/7/90

Otitidae

- Ceroxys urticae* 26/5/90, 2/6/90, 7/7/90, 5/8/90, 18/8/90
Melieria crassipennis 7/7/90, 14/7/90
Chrysomya demandata 7/7/90, 14/7/90, 18/8/90

Opomyzidae

- Opomyza germinationis* 7/7/90, 18/8/90
O. petrei 5/8/90
O. florum 7/7/90, 14/7/90, 5/8/90, 18/8/90
Geomyza tripunctata 22/4/90

Sciomyzidae

Pherbellia ventralis 18/3/90, 28/4/90
P. cinerella 28/4/90, 2/6/90, 18/8/90
Elgiva cucularia 18/3/90
Seredon spinipes 28/4/90
Tetarsocera ferruginea 26/5/90, 2/6/90, 7/7/90
Ilione albiseta 26/5/90, 7/7/90, 18/8/90
Phorbina coryleti 18/8/90
Euthycera fumigata 7/7/90
Limnia unguicornis 7/7/90

Pallopteridae

Palloptera ustulata 7/7/90, 18/8/90
P. muliebris 18/8/90

Lauxaniidae

Sapromyzosoma quadripunctata 7/7/90, 14/7/90, 5/8/90, 18/8/90
Tricholauxania praeusta 18/8/90
Minettia lupulina 2/6/90
M. rivosia 7/7/90
M. fasciata 7/7/90, 18/8/90

Sepsidae

Sepsis cynipsea 26/5/90, 5/8/90
S. thoracica 5/8/90
Themira putris 26/5/90, 2/6/90, 1/7/90, 7/7/90, 14/7/90, 5/8/90, 18/8/90
T. annulipes 26/5/90

Heleomyzidae

Tephrochlamys ? *rufiventris* (aberrant) 18/3/90

Chloropidae

Calamarcosis glyceriae 14/7/90, 5/8/90
Chlorops pumilionis 26/5/90
• *C. obscurus* 5/8/90, 14/7/90
Thaumatomyia glabra 2/6/90
T. notata 14/7/90, 5/8/90
• *Cebema panamypina*
• *Oscinella hertensis* 7/7/90
• *Oscinella arcuata* 24/8/92

Scathophagidae

Scathophaga stercoraria 18/3/90, 28/4/90, 26/5/90, 7/7/90, 14/7/90, 5/8/90, 18/8/90
S. furcata 18/3/90, 28/4/90
Cleigastra apicalis 28/4/90
Spaziphora hydromyzina 28/4/90, 7/7/90, 18/8/90
Nanna tibiella 28/4/90
N. fasciata 28/4/90

Muscidae

Limnophora tigrina 18/8/90
Phaonia errans 7/7/90
P. pallida 7/7/90
* *P. atriceps* 28/4/90
Graphomya picta 26/5/90
Spanochaeta dorsalis 7/7/90, 18/8/90
Morellia aenescentis 14/7/90
Orthellia caesarion 5/8/90

TL29

Helina duplicata 2/6/90
Caricea tigrina 18/8/90

Calliphoridae

Cynomyia mortuorum 28/4/90
Lucilia silvarum 7/7/90

Sarcophagidae

Nyctia halterata 5/8/90
~~*Sarcophaga setipennis* 5/8/90~~
Metopia leucocephala 14/7/90

Tachinidae

- *Weberia pseudofurens* 8/9/91, 5/8/90
- *Exorista rustica* 5/8/90 8/9/91
- *Lydella stabularis* 5/8/90 14/7/90
- ~~*Muscaria pavonina* 5/8/90~~
- *Lydella grisescens* 5/8/90 18/8/90
- *Siphona collini* 31/3/90
- *S. geniculata* 7/7/90
- *Actia lamia* 7/7/90

are *

Senotainia conica 26/5/90
 • *Pierretia nigri ventris* 18/8/90
 • *P. setipennis* 5/8/90

HYMENOPTERA

Cephidae

Cephus pygmaeus 26/5/90, 2/6/90
Calamanta pallipes 2/6/90

Argidae

Arge cyanocrocea 7/7/90

Tenthredinidae

Tenthredopsis nassata 7/7/90
Aglaostigma aucuparia 31/3/90
Ametastegia glabrata 5/8/90
Athalia fibra 7/7/90
A. scutellariae 14/7/90
Selandria serva 26/5/90, 14/7/90
Dolerus gonager 31/3/90
D. nigratus 28/4/90
Pachynematus clitellatus 7/7/90
Dolerus aericeps 7/7/90, 5/8/90
D. aeneus 28/4/90

Anthos

Leucophora ^{civica} ~~sp.~~ 14/7/90, 20/5/90
Zaphre divisa 28/4/90
Myopina myopina 18/8/90
Anthomyia procellaris 14/7/90

Aculeates

Chrysididae

Hedychridium ~~caperum~~ *ardens* → (AES 20/5/89) not me.
Trichrysis cyanea 26/5/90

Pompilidae

Priocnemis perturbator 30/3/90 2/5/89 3/5/89
Pompilus cinereus ~~14/7/90~~ 5/8/90 14/7/90 18/8/90
Arachnospila anceps 5/8/90
Evagates crassicornis 18/8/90
Anoplus infuscatus 18/8/90 - very large specimen
Episyron rufipes 26/5/90 7/7/90 18/8/90 (30/5/89 AES holds)

Eumenidae

Ancistrocerus trifasciatus 26/5/90

Vespidae

Dolichovespula sylvestris 15/8/90
Vespa germanica 30/3/90 28/4/90 14/7/90 5/8/90 15/8/90
V. vulgaris 18/8/90 28/4/90 5/8/90

mm

Sphacidae

- (30/5/89 AES)
 Tachysphex pomuliformis 26/5/90 (2/5/89) ✓
 Trypoxylon attenuation 7/7/90 18/8/90 ✓
 T. ~~figulus~~ ^{3 melipium} (semistriate) 26/5/90 ✓
 Crossocerus elongatulus 26/5/90 ✓
 C. tarsatus 7/7/90 ✓
 C. capitosus 7/7/90 ✓
 Ectemnius continuus 7/7/90 ✓
 Oxybelus uigilans 26/5/90 14/7/90 30/5/89 AES ✓
 Entomognathus brevis 26/5/90 ✓
 Pemphredon lethifer 14/7/90 18/8/90 9/8/90 ✓
 Diodontus minutus 26/5/90 14/7/90 ✓
 Mellinus arvensis 18/8/90 ✓
 * Argogorytes fargei 26/5/90 MM

Colletidae

- * Mylaeus signatus 26/5/90 7/7/90 14/7/90
 M. annularis 14/7/90 MM

Andrenidae

- Andrena clarkella 10/3/90 18/3/90 30/3/90 2/5/89
 A. jacobae 30/3/90 2/5/89 3/5/89
 A. bicolor 18/3/90 7/7/90 14/7/90 26/5/90
 A. nigroaenea 18/3/90 30/3/90 28/4/90 26/5/90
 A. pubescens 30/3/90
 A. haemorrhoa 30/3/90 28/4/90 2/5/89
 A. minutula 18/3/90 14/7/90 7/7/90

MM

Halictidae

- Halictus rubicundus 26/5/90
 H. tumulorum 5/8/90 7/5/89
 LasioGLOSSUM leucogonium 18/8/90
 * L. xanthopus 2/5/89, 3/5/89
 L. albipes 2/5/89
 L. calceatus 7/7/90 18/8/90 7/5/89 2/5/89 3/5/89
 L. minutissimus 7/7/90
 L. nitidiusculus 2/5/89 18/8/90
 L. villosulus 5/8/90 18/8/90 7/7/90 3/5/89
 L. leucopus 7/7/90, 5/8/90, 18/8/90
 L. morio 5/8/90 18/8/90 3/5/89
 Sphacodes fasciatus 5/8/90 7/8/89 7/5/89
 S. gibbus 18/8/90
 S. monilicornis 31/3/90 18/8/90, 3/5/89
 correction • * S. ~~crassus~~ 3/5/89 geoffrellus MA - NO crassus!
 S. crassus 8/9/91

Megachilidae

- Osmia caerulea 14/7/90
 O. leaiana 26/5/90
 O. rufa 26/5/90
 Megachile centurcularis 14/7/90

Anthophoridae

- Nemada fabriciana 18/3/90 30/3/90 2/5/89 3/5/89 7/5/89
 N. goodeniana 28/4/90 26/5/90 2/5/89 3/5/89 30/5/89 AES
 N. leucophthalma 18/3/90

MM

N. marshamella 30/3/90 2/5/89 3/5/89
 N. ruficornis 2/5/89 3/5/89
 Anthophora plumipes 1989 - 504 ~~3/5/89~~ 3/5/89
 Melecta albifrons 2/5/89

mm

Apidae

Bombus lucorum 30/3/90 5/8/90
 B. terrestris 30/3/90 26/5/90 2/6/90 7/7/90 14/7/90 5/8/90 18/8/90
 B. lapidarius 30/3/90 28/4/90 26/5/90 2/6/90 7/7/90 14/7/90 18/8/90
 B. pratorum 30/3/90 26/5/90 2/6/90 7/7/90 14/7/90
 B. hortorum 30/3/90 7/7/90 18/8/90
 * B. ruderatus ~~30/3/90~~ 7/7/90 14/7/90 2/5/89 3/5/89
 B. pascuorum 31/3/90 28/4/90 26/5/90 2/6/90 7/7/90 14/7/90 5/8/90 18/8/90
 B. ruderarius 28/4/90 26/5/90 7/7/90
 Psithyrus barbutellus 28/4/90 26/5/90 7/7/90 14/7/90
 P. vestalis 26/5/90 7/7/90 14/7/90 5/8/90
 P. campestris 14/7/90

mm

72 spp

Other Insects

Cicindella campestris 18/3/90 30/3/90
 Small Heath 26/5/90
 Small Tortoiseshell 26/5/90 7/7/90 14/7/90
 Peacock 26/5/90
 Common Blue 26/5/90
 Large Skipper 26/5/90
 Wall Butterfly 26/5/90
 Small Copper 26/5/90
 Gatekeeper 7/7/90 14/7/90
 Meadow Brown 7/7/90
 Green veined White 7/7/90
 Small White 14/7/90
 Red Admiral 14/7/90

add. Sphecodes niger 28/9/92

Ammygdala sabulosa 28/9/92

Vespa rufa 28/9/92

76 spp. Sphecodes puncticeps 28/9/92

see the next page
further on

mm

NCC } 26/2/92
J. Cole

Syrphids v. n. l.
Teph. 6

CAMBS

STANGROUND

8/9/91

Syrphids

Eristalis arbustorum
Platycheirus clypeatus
Melanostoma mellinum
Episyrphus balteatus
Platycheirus argus
Sphaerophoria rueppellii
S. scripta
Eristalis tenax
Syrphia pipiens
Nerassia tenax
Helophilus pendulus
H. ~~p.~~ hybridus
Metasyrphus luniger
Syrphus ribesii
Eumerus tuberculatus
Cheilosia griseiventris

Aculeates

Pemphredon

Bombus pascuorum
Psithyrus campestris
Bombus lapidarius
Mellinus arvensis
Trichrysis cyanea
Episyrphus rufipes
Lasioglossum calceatum
L. villosulum
Sphecodes monilicornis
* S. crassus ✓ del ma
S. fasciatus
Lasioglossum morio
* ~~Sphacelodes niger~~ mm

Butterflies

Small White
Green-veined White
Small Tortoiseshell
Small Copper
Small Heath

Acalypterates

Themira putris
Ceroxys urticae
Melieria crassipennis
Elaeophora megaspis
Elgiva solivita
Ilione albisetia
Opomyza florum
O. germinationis
Callipium elisae
Chlorops
Tetaroera ferruginea
* Urophora solstitialis
Minettia rufosa
Pherbellia cinerella
Sapromyzosoma 4-punctata
Sepsis thoracica
Elaeophora cornuta
Oscinosoma ~~cognata~~ gilvipes
Thaumatomyia glabra

Calypterates

Eriothrix rufomaculata
Scathophaga stercoraria
Sarcophaga subvicina
Coenosia pumila
Lucilia caesar
L. silvarum
Onesia vulgaris
Graphomyia maculata
Orthellia caesarion
Stomoxys calcitrans
Morellia aeneascens
Caricea tigrina
Trichopalpus fraternus
Spaziophora hydromyzina
Hydrotaea dentipes
* H. parva
Melina duplicata
H. obscurata
Myospila metabunda
Mebeccema unbraticula
Spanthchaeta dorsalis
Discachaeta pumila
• Weberia pseudofumosa
• Exorista rustica
• Lydella grisescens
• Phryxe vulgaris
• Siphona gericulata

Dolichopodidae

• ? Dolichopus latelimbatus/
- rufus

Other Insects

Forficula auricularia
Lestes sponsa
Symptetrus striolatus
Aeshna grandis

Syrphids found
L. brach. 1 sp.
no empty 8

TL29

STANGROUND

29/8/92

not 28/9/92 as labelled on some!

Aculeates

- Bombus pascuorum
- B. lapidarius
- ✓ Vespula rufa
- ✓ V. germanica
- Episyrus rufipes
- Anoplius infuscatus
- Arachnospila arceps
- Sphex moultoni
- ✓ S. puncticeps
- LasioGLOSSUM calceatum
- L. fructum villosulum ✓
- * L. xanthopus
- L. leucosomus
- L. morio
- Malictus tumulorum
- Tachysphex pompiliformis
- Melissus arvensis
- ✓ Amphipila sabulosa
- * Sphex rufus
- S. jasciatus

Syrphids

- Episyrphus balteatus
- Melanostoma mellinum
- Platychirus clypeatus
- P. fulviventris
- Chilosia griseiventris
- * C. cynocephala
- C. pagana
- Sphaerophoria scripta
- Syrphia pipiens
- Eristalis nemorum
- Scaeva pyrastris
- Eristalis tenax
- E. robustum
- Platychirus peltatus
- Rhingia campestris
- Melophilus pendulus
- Platychirus manicatus
- P. scutatus
- Xanthogramma pedissequum
- Eristalis sepulchralis
- Eristalis abusivus

L. Brachycera

Thereva nuditata

Lonchopteridae

Lonchoptera lutea

Bibionidae

Dilophus febrilis

Acalypterates

- Ilione albiseta
- Tetaneura ferruginea
- Sepedon sphegus
- Dichaetophora obliterata
- Pherbellia cinerella
- Pherbina coryleti
- Elgiva sundewelli
- Sepsis violacea
- Sepsis punctum
- S. cynipsea
- Miretia rissa
- Urophora solstitialis
- Tephritis cometa
- * Dioxyna bidentis
- * Sphenella marginata
- Loxocera albicincta
- Themira putris
- Elachytera cornuta
- Opomyza geminatoris
- Sapromyzosoma 4-punctata
- Chrysomya demanata
- Elachytera megaris
- Thaumatomyia notata
- Captonera
- Calamarcosia glyceriae
- * Oscinomyia arcuata?
- Larva fumosa
- Dolichopodidae
- Dolichopus latelimbatus
- D. plumipes

Empididae

Platypalpus minuta

Calypterates

- Spiziphora hydromyzina
- Scathophaga stercoraria
- Lucilia sericata
- L. sylvanum
- L. richardsi
- Pollenia rudis
- P. argyritarsis
- Sarcophaga dissimilis
- Bellardia vulgaris
- Orthellia cornicina
- O. caesarion
- Graphomya picta
- Helina impuncta
- H. duplicata
- Phaonia trimaculata
- Polydes albolineata
- Caricea tigrina
- Mebeccrema umbratica
- H. affinis
- Eriothrix rufomaculata
- Alphora pusilla
- Siphona geniculata
- Ocytata pallipes
- Trixa oestroidea
- Stevenia atramentaria
- Sarcophaga nigriventris
- * S. inaequalis & melanura
- Phylo melanoccephala
- Coenosia
- Alphora pusilla
- Diera grisea
- Ocytata pallipes
- Eriamprocera sacchari
- Voria ruralis
- Lydella grisea
- Phyxe vulgaris

B. flies

- S. Tart
- C. Blue
- S. Heath
- C. V. White
- S. White

BEEs, WASPS & SAWFLIES RECORDED FROM STANGROUND GULLET NEAR PETERBOROUGH.

When Spooner () produced his account of the ^{aculeate wasps} ~~bees~~ and ^{bees} ~~wasps~~ of Cambridgeshire, he was largely dismissive of the northern part of the county which consists predominantly of peaty soils. Such soils are not conducive to a great richness of ^{ground resting} aculeates ~~which~~ which tend to form their largest assemblages on lighter, sandy ^{soils} ~~soils~~. There is an inference in Spooner's work that sites such as Wicken Fen, ^{which support a predominance of dead wood & stem resting forms,} ~~are~~ are likely to represent the best that could be expected from the 'Fenland' districts.

However, there is to be found ~~very~~ locally within the Fens, and particularly towards Peterborough, outcrops of clayey and sandy ~~and~~ ground which is more amenable to ground-resting species. Some of these areas have been exploited as brickpits and sandpits, which has often improved the conditions for aculeates by ^{producing} ~~providing~~ plenty of bare ground and flower-rich early successional and scrub stages.

Stanground Gullet, an area of abandoned brickpits and cattle-grazed pasture lying between Peterborough and Whittlesea (just within the vice-county) is an example of one of these areas. One limited section has been recorded assiduously by the author in spring 1989 and throughout spring and summer of 1990 (about one dozen visits in total) to assess its entomological importance. ^{A few aculeate records resulting from a visit made by A.E. Stubbs are also included.} Particular emphasis was placed on the recording of bees, wasps and flies, though some sawflies were also taken. The list of aculeates produced so far is ~~extremely~~ ^{for the East Midlands} impressive, both in terms of its richness and the presence of some nationally rare species, ^{it} and is unlikely to be ~~definitive by any means as many species could be elusive or show a degree of rarity & abundance is difficult~~.

The author is not entirely clear about the detailed history of the site, though the character of the area ^{surveyed} has resulted essentially from the combined construction of a canal, a raised railway line (Peterborough to Ely), the excavation of a large brickpit (now containing a lake and marshy areas) and cattle ~~grazing~~ ^{grazing} of some ^{parts} ~~areas~~. The ~~the~~ features of greatest importance for aculeates are two long, south-facing banks. One of these, running directly south of the canal consists of cattle grazed turf with thistle clumps. The other, which occurs along the north edge of the brickpit, consists of bare and sparsely-vegetated sand and gravel, and becomes sandier and more

vertical towards its western ~~edge~~ end. Many of the ~~scarce~~ ^{scarce} ~~parent~~ species were recorded ~~at this~~ nesting in this vertical section.

The site supports a great richness of flowers. Of particular importance for the spring fauna (especially queen bumblebees) are dandelion, dead nettles, coltsfoot and sallow. In late spring and summer, popularity ~~has been shifted~~ ^{shifts} to various umbellifers, thistles ~~(especially thistles)~~, fleabane, ragwort, ~~a variety of~~ ^{act} ~~dandelion type flowers~~ ^(eg Pteris), poppies, mallow, ~~toadflax~~ ^{Common} and white bryony.

CHRYSIDIDAE (Ruby-tailed wasps). mostly cleptoparasites of other aculeates. ~~The listed species are common~~ ^{widespread}

Hedychridium cupreum (Dahlbom) - a widespread but scarce species exploiting the sphaerid wasp Astata pinguis, which was not found at the site (presumably overlooked).

Trichrysis cyanea (Linnaeus) - a common species exploiting a variety of small sphaerids eg. Trypoxylon spp & Pemphredon spp.

POMPILIDAE (Spider wasps). The listed species are amongst the most widespread & frequent of the ~~in British~~ ^{in the} British wasps. All nest in dry ground and stock their nests with spiders. The sandy & gravelly bank is esp important for this section of the fauna, though P. perturbator also occurs on the ~~grass~~ ^{grass} pastures.

Priocnemis perturbator (Harris)

Pompilus cinereus (Fabricius)

Arachnospila anceps (Wesm.)

Evagetes crassicornis (Shuckard)

Anoplius infuscatus (Vander Linden)

Episyron rufipes (Linnaeus).

EUMENIDAE (Mason wasps).

Ancistrocerus trifasciatus (Muller) A common sp, nesting in cut stems, holes in wood etc & stocking cells with caterpillars or leaf beetle larvae.

VESPIDAE (Social wasps). Family wasps.

Dolichovespula sylvestris (Scopoli) - The 'Tree Wasp'. Nests are suspended from twigs or branches in shrubs & trees.

Vespa germanica (Fabricius) - The 'German Wasp'. Very common at the site. Nests occurred at regular intervals along the sandy & gravelly bank, sometimes only a few yards apart.

V. vulgaris (Linnaeus) - The 'Common Wasp'. Not very common at the site, possibly outcompeted by V. germanica which is probably a more thermophilic sp benefiting from the ~~warmer~~ ^{warmer} banks.

SPHECIDAE (Digger Wasps or Mating Wasps) - Common, unless stated. Mostly associated with the sandy & gravelly banks.

Tachysphex pompiliiformis (Panzer) - preys on grasshopper nymphs.

Trypoxylon attenuatum Smith - Trypoxylon sp nest in cut stems & dead wood as well as beneath earth bases. Prey on tiny spiders.

T. figulus sensu lato. ~~Observed~~ ^{seen} 26.5.90.

Crossocerus elongatulus (Vander Linden) - Nests in dead wood. Preys on small flies.

C. tarsatus (Shuckard) - preys on small flies esp Empididae.

C. capitosus (Shuckard) - Nests in cut stems preys on small flies & psyllids.

Ectemnius continuus (Fabricius) - nests in dead wood, preys in large flies.

Oxybelus uniglumis (Linnaeus) - Preys on ~~small~~ ^{medium sized} flies. Common along sandy & gravelly banks.

Entomognathus brevis (Vander Linden) - Preys on small beetles, common in ~~sandy~~ ^{sandy} ~~part of~~ ^{part of} bank.

Pemphredon lethifer (Shuckard) - Nests in cut stems, hunts aphids.

Diodontus minutus (Fabricius) - ~~Very large~~ ^{Large} nests eggs on vertical sandy bank. Preys on aphids.

Mellinus arvensis (Linnaeus) Preys on large flies eg. Muscidae, Calliphoridae.

Argogorytes fargei (Shuckard) A very scarce species (Nationally Notable), nesting on small root in vertical sandy bank. Preys on Hymenoptera the nymphs of ~~the~~ ^{the} ~~spittle~~ ^{spittle} - bugs (eg Philaenus) within their ~~growth~~ ^{growth} (cuckoo spit).

COLLETIDAE (Short-tongued bees). The genus involved here contains small, almost hairless bees nesting ~~variously~~ ^{variously} in the ground & cut stems etc.

Hylaeus signatus (Panzer) - A scarce (Nationally Notable) species, obtaining pollen from Rosa spp. with which it is ~~strongly~~ ^{strongly} associated.

H. annularis (Kirby) - A common sp nesting in hollow twigs, plant stems etc.

ANDRENIDAE (Mining bees). Ground nesters. ^{Cold species} ~~At~~ common.

Andrena clarkella (Kirby) - an early spring sp, specialising of willow blossoms, large nesting eggs on vertical sandy banks.

A. jacobii Perkins - A mid to late spring sp. obtaining pollen from a wide variety of flowers. Particularly numerous along the

A. bicolor Fabricius - ^{grassy banks, but nesting solitary.} A double brooded species occurring in early spring and ~~late~~ ^{into} summer. with a variety of flowers.

A. nigroaenea (Kirby) - ~~A. nuda like spring sp. but hairs resemble A. nigra~~ - as per A. jacob.

A. pubescens (Olivier) - as per A. jacobini

A. haemorrhag (Fabricius) - as per A. jacobii

A. minutula (Kirby) - as per A. bicolor

HALICTIDAE (mud bees) - habits as for the last family). Common ones stated (^{Females of most} many sp are active feeders of nectar type composites. The genus Sphaerocera are ^{wasp-like} cleptoparasites of ~~sphagnum~~ Claytonia & Halictus sp & do not build their own nests.

Halictus rubicundus (Christ)
H. tumulorum (Linnaeus)

Halictus rubicundus (Christ)

H. tumulorum (Linnaeus)

Lasioglossum leucozonium (Schrank)

L. xanthopum (Kirby) - A ~~nationally~~ ^{locally} scarce (Nationally Notable) highly declined sp. found along the gravelly banks
L. albipes (Fabricius) (though no nests discovered). Not found in 1990 despite ^{several} searches.

L. albipes (Fabricius)

L. calceatum (Scopoli)

L. minutissimum (Kirby)

L. nitidiusculum (~~Schreb.~~) (Kunze)

L. villosulum (Kirby)

L. leucopum (Kirby)

L. morio (Fabricius)

Sphacodes fasciatus von Hagen

S. gibbus (Linnaeus)

S. monilicornis (Kirby)

MEGACHILIDAE (^(Megachile) Leaf cutter Bees; ^(Osmia) Mason Bees/etc). Listed species nest mostly in dead wood ex. *Osmia rufa*, which uses ^{also was} masonry, vertical hanks.

Osmia coerulescens (Linnaeus) -

O. leaiana (Kirby) =

O. rufa (Linnaeus) -

Megachile centuncularis (Linnaeus) -

ANTHOPHORIDAE (Nomad bees and ^{many} ~~other~~ bees). ^{man} ~~The genus Nomada~~ ^{& includes} cleptoparasites of other many bees. Anthophora is non-parasitic ~~and~~ ^{growing} species.

Nomada fabriciana (Linnaeus) - exopt. A common unless staked.

Nomada fabriciana (Linnaeus) -

N. goodeniana (Kirby) - exploits *Andrena jacobae*

N. leucophthalma (Kirby) - exploits Andrena clarkella. Rather scarce, and only seen once here.

N. marshamella (Kirby) - exploits *Andrena nigroparvula* (pubescens?)

N. ruficornis (Linnaeus) - exploits Anders & haemorrhoids

Anthophora plumipes (Pallas) - the Potter or Flower Bee, Nests in banks, mortar etc., visits spring flowers such as Laminium,

Melecta albifrons (Forster) - a ~~dipter~~ ^{fly} exerts A. plumbeus

APIDAE (Bumble bees & Cuckoo Bumble Bees). *Bombus* sp form large social colonies surviving for one ^{season} year. The workers collect nectar during the summer to stock the nest cells. *Psithyrus* sp are social parasites. Lacking workers of their own & using *Bombus* workers to rear their own young. Common unless stated.

• Bombus lucorum (Linnaeus)

B. terrestris (Linnaeus)

B. lapidarius (Linnaeus)

B. pratorum (Linnaeus)

B. hortorum (Linnaeus).

B. ruderals
B. passerum

13. *pasabutum*

B. ruderarius
p5th

ps th

- Oliver

Pearl.
meeting on ~~1st~~ Friday 1st March 10.00.
MAGM O & M.

Discussion

The fauna of Stanground Gullet, with its rich variety of ground nesters, complements contrasts strongly with the fauna of sites such as Wicken and Woodwalton with their predominance of dead wood & stem nesters. It is also different from the typical fauna encountered on the limestone gravel and scrub & woodland on the hilly areas to the west, which is not as rich & lacks early geology.

Discussion

^{Some species (e.g. common species) may be widespread in the district have not been found. Future recording may well highlight}
The ~~list~~ ^{main results} of species encountered from the relatively small area surveyed suggests that the ~~early geology~~ ^{early geology} is unlikely to be the definite ~~factor~~ ^{factor} very favourably in quality ~~by any means~~. Many species can be elusive at a site, either through their habits, or as a result of fluctuations in frequency of entry and absence in different years. However, it is ~~clear~~ ^{clearly} that the aculeate fauna associated with the localised early geology around Peterborough is likely to be ~~important~~ ^{regionally important} in terms of richness it is likely to compare favourably ~~and possibly exceed~~ that with the fauna recorded at sites ~~such as Wicken~~ ^{such as Wicken}, supporting ~~many~~ ^{many} ground nesting species unlikely to occur on peaty geology and possibly

~~The list of species encountered at the site is unlikely to be the definitive list for the site, on many common species are yet to~~
^{Unfortunately a large chunk of the Peterborough area intended for development is in the Broomfield / but not including Stanground Gullet}

The ~~known aculeate~~ fauna The list of aculeates obtained from Stanground Gullet, suggests that the early geology associated with brickpits and ~~surrounding~~ ^{the district} areas around Peterborough are probably of tremendous importance regionally. Many of the ground nesting species are likely to be absent from the peaty soil of the 'Fens' even from the ~~last~~ ^{last} examples such as Wicken & Woodwalton; ~~many ground species do not reappear until one hits the early geology of the Bricks & southern Cambridgeshire~~ ^{on the eastern side of the Fens}. The limestone ~~regions~~ ^{hills of Northants} west of Peterborough have not been especially well ~~studied~~ ^{studied} for aculeates, though efforts by the author ~~at sites such as Carter Manby & Barnack suggest they are not especially rich~~ ^{at sites such as Carter Manby & Barnack suggest they are not especially rich}. The soil is often too clayey ~~and is in early situations~~ ^{and is in early situations} & supports few species of note.

It is unlikely that the list of species obtained for Stanground is anywhere close to definite. Many ~~species~~ ^{aculeates} are elusive or difficult to capture. Some show year-to-year fluctuations in frequency, so that they can only be detected by regular visits over a number of years. At case in point would be *L. xanthopus* which was seen ~~in~~ ⁱⁿ moderate nos in 1989, but not at all in 1990 despite many more hours spent at the site during this year. ~~It is also unlikely that Stanground Gullet is the area~~ ^{It is also unlikely that Stanground Gullet is the area} ~~best richness of aculeates~~ ^{best richness of aculeates} ~~it is not clear what the full rich aculeate richness~~ ^{it is not clear what the full rich aculeate richness} ~~the best~~ ^{the best} how representative Stanground Gullet is of the ~~area~~ ^{area}. There are likely to be ~~some~~ ^{some} ~~absent~~ ^{absent} the general lack of scrub & wooded sites at Stanground probably limits the no. of dead wood & stem-nesting sp present, and ~~the~~ ^{the} recording by the author at Woodwalton Fen suggests that site is substantially richer for such species. ~~However~~ ^{However} ~~the ground nesting fauna is far richer than Woodwalton, Wicken, Carter & Barnack~~ ^{the ground nesting fauna is far richer than Woodwalton, Wicken, Carter & Barnack}

fen & scrub/carr

Stratiomyids*Oplodontha viridula**Oxycera trilineata**morrisi* - A.E. Stubbs at brickpits*Boris vallata**geniculata**Chloromyia foveosa**Nemotelus pantherinus*Tabaridae*Chrysops relictus**caecutiens**Haematopota pluvialis**Crassicornus*Rhagionidae*Myrsquilus cristatus**asiliformis* (= *aureus*)Sciomyzidae*Phorbilia dorsata**Crierella* (taken by Essex Naturalist Trust chap)N *Pseudaonia verbekei* - numerous by brickpits*Pteronera argustipennis**Ilione albivitta**Phorbilia conyleti**Sepedon spinipes**Tetanolocera elata**Linnaea paludicola**Elgiva* *salicita*Otitidae*Merina frondescentiae**Melieria crassipennis*+ *Merina* sp. taken by P. Withers & co.Tephritidae*Rhagoletis alternata**Chaetorellis jaceae*Opomyzidae*Opomyza flavum**germinationis*+ 2 *Geomyza* spp. probably*tripunctata* & *balachowskyi*
(await confirmation)

8/7/89 TL5570

S.J. FALK - provisional list

*Syrphididae**Libraea, Lept., Campoplex*Syrphidae*Eristalis pertinax**intricarius**Rhizgia campestris**tylota segnis**Melophilus pendulus**trivittatus**Episyrphus balteatus**Platycheirus dypeatus**albimanus**fulviventris**Trichopsomyia flavitarsis**Cheilosia pagana**impressa**proxima**Syrphus ribesii**vitripennis**Metasyrphus corollae**latijasciatus**Volucella bombylans**Tropidia scita**Sphaerophoria scripta**Syrphia pipiens**Eumerus strigatus**Pyrophaena granditarsa**Neoscia tenuis**Baccha elongata**Melastoma mellinum*Coropidae*Sicus ferruginea*? *abdominalis* Stubbs in meadow N.Y.*Tenebrion**Pachylus**Argyria vestita**Merostomus metallicus**Chrysotus granivorus**C. ciliatus**Merostomus nanus**Hybos femoratus**Bicellaria nera**Melara subpollinosa**Platypalpus**P. pallidicornis**P. pallidiventris**Anthos**Eustolomys festiva**Scaphophaga**Cordulura**Muscids**Spanochaeta dorsalis**Lipocephala erythroscera**Blattella**Anthomyza gracilis**Ditrichophora calceata**Elachiptera cornuta**Platycephala**Cebema parumpipiens**Diploptera**only known from Barton Mills, 1906**Lioscinella anthracina**Lycopella deapensis**Loxocera ichneumonae**Nemopoda nitidula**P. yuccae Thomsoni**Calyptra**Chana*Aculeates*Bombus**lapidarius**terrestris**pratorum**pasuorum**hortorum**Psithyrus vestalis**barbutellus**Vespa rufa**Dolichovespula norvegica**Ectemnius continuus**lapidarius*** Crossocerus**binotatus**rigatus**podagricus**RDB3 Macropis europaea**Megachile ligniseca**Anastoechus gazella**trifasciata**Hylaeus**confusus**pechonalis**Trypoxylon alternatum**Panurginus supularis**Megachile ligniseca*

MM

Aversley Wood TL 1682 5/5/90

Brampton Wood TL 1870 5/5/90

Holme Fen TL 2089 1989-1991

Woodwalton Fen TL 2283 1985-

AVERSLEY WOOD TL1682 S/S/90

Ancient woodland on clay, marshy clearings

Larger Brachycera

- Beris chalybeata* (Stratiomyidae)
- Bombylius major* (Bombyliidae)

Scathophagidae

Scathophaga furcata

Calliphoridae

Pollenia varia (now called *griseotomentosa*)

Muscidae

- * *Phaonia atriceps*
- *P. halterata*

Aculeates

Andrena chrysoalea
Andrena jacobii
Andrena haemorrhoa
Andrena fulva } (Andrenidae)

Vespa vulgaris
Vespa crabro } (Vespididae)

Nomada marshamella
Nomada flavoguttata
Nomada fabriciana
Nomada ruficornis } (Anthophoridae)

Chelostoma florissomne (Megachilidae)

Hoverflies

- Platycheirus manicatus*
- Platycheirus tarsalis*
- Eristalis pectoratus*
- Syrphus ribesii*
- Baccha* sp.
- Pipiza noctiluca*
- Eristalis sepulchralis*
- Cheilosia albitarsis*
- Neoscia meticulosa*

Tachinidae

- *Lypha dubia*
- *Siphona geniculata*

Syntormon pallipes

- *Dilophus febrilis* S/S/90
- *Rhamphomyia sulcata*

Anthos

Botanophila striolata

Symphyla

- Loderus vestigialis*
- * *Dolerus bimaculatus*
- Dolerus liogaster*
- Ametastegia albipennis*
- Selandria sena*
- Eucura* sp.

Syrphids / small
Libra. no sept / large
6

HUNTS

BRAMPTON WOOD, TL1870 5/5/90 Ancient woodland on clay,
marshy areas

Larger Brachycera

- Beris chalybeata (Stratiomyidae)
- Bombylius major (Bombyliidae)

Acalypterates

- Tricholauxaris praevia (Laurariidae)
- Palloptera scutellata (Pallopteridae)
- Pherbellia ventralis (Sciomyzidae)
- Renoera pallida (" ")
- Eigina cucularia (" ")

Sulla sp (Heleomyzidae) - keys out to
dawnae, but will need confirmation - prob
parva

Scathophagidae

- Nanna flampis Gibiella
- Nanna fasciata
- Scathophaga furcata
- Coreulna pubera

Aculeates

- Andrena chrysosceles } (Andrenidae)
- Andrena jacobi }
- Andrena furcata }
- Nomada flavoguttata } (Anthophoridae)
- Nomada ruficornis }
- Nomada ~~perizon~~ ^{flava} }
- Bombus pratorum } (Apidae) MM
- Bombus pascuorum }
- Priocnemis perturbator (Pompilidae)

Symphyla (all detd by A.S. Wright)

Tenthredinidae

- Athalia cordata
- Eutomostethus ephippium
- Eutomostethus luteiventris
- Phyllocolpa sp.
- Pachynematus apicalis

Hoverflies

- Dasymphe alboscriptus
- Eristalis pectorax
- Platycheirus ambiguus
- Epistrophe elegans
- Platycheirus maricatus
- Cheilosia pagana
- Platycheirus scutatus
- Melanostoma scalare
- Symphysa ribesii
- Platycheirus tarsalis
- Cheilosia antiqua
- Cheilosia griseiventris
- Leucogona lucorum
- Criorhina berberina
- Pipiza luteitarsis
- Platycheirus europaeus (♂ ♀)
- Helophilus pendulus
- Eristalis arbustorum

Bibio leucopterus 5/5/90
varia ~~perizon~~ 5/5/90

- Chlorops hypostigma
- Xanthopus trigramma
- Aclonemys albonota

Anthos

- ~~Botanophila striatula~~
- Anthomyia procellaris

Synapsids & Mammals
1. no teeth (mammals) ② - additions

HOLME FEN NNR (2/2/85 RS Key) 22/4/90 6/5/89 13/5/91 TL2089
damp woodland

Acalypterates

Lauricariidae -

Lauxariaceae -
Tricholaucaria praerusta 18/5/91 2/8/85 RSH
Lyciella ? subfasciata ♀ 18/5/91
Lyciella styliata 18/5/91
 * *Sapromyza hyalinata* 18/5/91
Calligyrus aeneum 18/5/91
Sapromyza secpunctata 2/8/85 RSH

Sciomyzidae

Tetanebora ferruginea 18/5/91, 6/5/89
Phorbellia dubia 18/5/91
Elgiva cucullata 18/5/91
 * *Dichetophora finlandica* 8/2/85 RSK

Pallisteridae

Pailontera scutellata 18/5/91 28/4/90
arcuata 18/5/91

Heleomyzidae

Tephroschlamys rufiventris 18/5/91 ~~28/4/90~~
Heteromyza retundicornis 18/5/91 28/4/90 6/5/91

Clusiidae

Chusodes facialis 18/5/91 6/5/89

Campicheetidae

Campichoeta punctum 18/5/91

Opomyzidae

Opomyza tripunctata 18/5/91

Psilidae

Psila rosae ♀ 18/5/91
 Lonocera fulviventris 8/8/85 RSK

Larger Brachycera

Stratiomyidae

Boris Chalybeata 18/5/91 6/5/89

Anthos

Anthos
Phlox subulata } 12/5/91
Phlox paniculata }
Phlox pilularis } 25/4/0

Dolichopodidae

• *Mercostomus cupreus* 6/5/89

• Fanning corvina 18/5/91

F. parva 18/5/91
F. serena 18/5/91
F. scutella 18/5/91

Empididae

- *Oedatea flavipes* 18/5/91
- *Parathromphomyia dentipes* 18/5/91
- *Empis nigripes* 18/5/91
- *Bicellaria varva* 18/5/91
- *Hilara maura* 18/5/91

Others

Bibio marci (Bibionidae) 12/5/91
Lonchoptera lutea (Lonchopteridae) 12/5/91
Opetia nigra (Platygzeiidae) 12/5/91
 18/5/91 Eudryton obliquus 12/5/91

Calypterates

Scathophagidae

Scathophaga fuscata 18/5/91
Cnemidophorus viridis 18/5/91
Megaphthalma pallida 18/5/91
Nanna fasciata 18/5/91 6/5/92

Callinhoridae

Calliphora vicina 18/5/91
Lucilia caesar / *illustris* 12/5/91
Muscidula melanomyia nana 18/5/91

Muscidae

Musca autumnalis 12/5/91
Phaonia errans 12/5/91
variegata 12/5/91
trimaculata 12/5/91
halterata 12/5/91

Helina impuncta 18/5/91
lactifica 18/5/91
Hebecnema affinis 18/5/91
vespertina 18/5/91

Tachiridae

Tachinidae

- *Siphmagericulata* 18/5/91
- *Phryxe? nemexia* 18/5/91
- *Weberia pseudofunesta* 18/5/91
- *Campylochaeta praecox*

Other insects - Orange tip, Green-veined White

NCC w mids } 26/2/92 → further = additions
J Cole

TL 2089

Syrphids, Swd
Libra, comp, teph & HUNTS

HOLME FEN NNR 10/8/91 - single 5 hr visit, fine weather

Aculeates

Trypoxylon attenuatum
Bombus lucorum
B. pascuorum
B. lapidarius
Psithyrus vestalis
Bombus terrestris
B. pratorum
Vespa vulgaris
V. germanica
Bombus hortorum
Vespa rufa
Pemphredon inornata
Crossocerus megacephalus
Ectemnius cavitrons
Rhaphium coarctatum
Ancistrocerus trifasciatus
Myrmica atra
Crossocerus annulipes
C. capitatus
Passaloecus insignis
P. singularis

Hoverflies

Eristalis tenax
E. pertinax
E. arbustorum
Eristalis balteatus
Scaeva pyrastris
Metasyrphus luniger
M. corollae
Melanostoma scalare
M. mellinum
Platychirus scutatus
Sphaerophoria scripta
S. philanthus
Syrphus ribesii
Xylota sylvorum
Cheilosia proxima
Helophilus parallelus
Myathropa florea
Eristalis sepulchralis
Platychirus albimanus
Baccha sp.
Syritta pipiens
Helophilus pendulus
Chalcidomyia nemorum
Eumerus strigatus
Neoscia tenuis
Cheilosia pagana
Sphaerophoria philanthus

Conopidae

Sicus ferrugineus
Conops quadrifasciatus
C. flavipes
Physocephala rufipes

Stratiomyidae

Chromomyia formosa
Ophiomima viridula

Rhagionidae

Rhagio lineola
R. brignarius

Asilidae

Diactria linearis
Nachinus atricapillus

Terevidae

Tereva nobilitata

Tabanidae

Chrysops relictus

Tephritidae

Ceratomyza tussilaginis
Myodeja caesia

Sciomyzidae

Elgiva cucullata
Hydromyza dorsalis
* Tetanocera phyllophora (new to Hunts?)
Trypetoptera punctulata
Euthycera fumigata

Lauxaniidae

Lyciella affinis
L. rorida
L. decipiens
Sapromyza sexpunctata
Calliopyga similimum
Peplomiza liturata
Minettia lupulina
M. fasciata
Tricholauxania praevista

Sepsidae

Sepsis duplicata
S. fulgens
S. cynipsea
S. orthocnemis
Nemopoda nitidula

Diasitidae

Diasitata costata

Opomyzidae

Opomyza florum
O. germinationis
Geomyza combinata ♀

Campicoetidae

Campicoeta punctum

Heleomyzidae

Suilla variegata

Clusiidae

Clusiodes albimans

Psilidae

Loxocera albisetia

Chloropidae

Cryptonevra flavitarsis
Meromyza sp.
• Cetema paramyopina

Lonchopteridae

Lonchoptera lutea

Dolichopodidae

Sciapus platypterus
Mercostomus aerosus
Xanthochlorus tenellus
• Medetera micacea = Chrysotus gramineus

Empididae

• Hybos aliaformis
• Bicellaria ~~no~~ spuria
• B. vana
• Platypalpus leucocapitata

Panorpa communis
Dark Grey Bush Cricket
Forticula

Scathophagidae

Scathophaga stercoraria
Cordilura ciliata

Calliphoridae

Lucilia caesar
Calliphora vicina
C. vomitoria
Protocalliphora azurea
Pollenia rudis = pallida
Melanomyia nana

Muscidae

Morellia aeneascens
Musca autumnalis
Graphomyia maculata
Helina impuncta
H. obscurata
Hydrotaea irritans
H. dentipes
Orthellia caesarion
Mydaea tinca
Phaenicia rufipalpis
P. viarum
P. populi
P. basalis
P. variegata
P. magnicornis (Wahlgrenia)
Muscina dissimilis
Hebecnema affinis
Mydaea nebulosa

Rhinophoridae

Paykullia maculata
Stenoria abramentaria
Phyto melanocephala
• Rhinophora lepida

Tachinidae

Eriothea rufomaculata
Tachina fera
• Weberia pseudofuresta
• Macquartia grisea
• Eurithia consobrina

Sarcophagidae

Heteromychia haemorrhoida
Helicophagella rosellei
Discacheta nuda
Sarcophaga subvicina
Heteromychia vagans
H. dissimilis

Fanniidae

F. curvicaudis
F. coracina
F. fuscula

Timos variegata sylvatica

Beetles

Coccinellidae
Strangalia maculata
Agapanthea

Dragonflies

Ishura elegans
Coenagrion sp.
Symptetrus sanguinarius
Aeshna grandis
Aeshna cyanea

Butterflies

Large Skipper
Small Copper
Ringlet
Meadow Brown
Large White
Gatekeeper
Small White
S. tortoiseshell
Peacock

HOLME FEN 28/2/92

Aculeates

Bombus pascuorum
B. lapidarius
Vespaula rufa
Bombus terrestris fmm
Psithyrus vestalis
Trypoxylon attenuatum

Syrphids

Episyrphus balteatus
Helophorus pendulus
H. hybridus
Syrphus ribesii
Sphaerophoria scripta
S. rugglesi
Melanostoma scalare
M. mellinum
Baccha sp
Nesocia tenuis
Platycheirus chrysatus
P. scutellatus = "auro lateralis" sp. nov
P. peltatus
P. albimanus
Metasyrphus luniger
Dasyrphus albostriatus
Tropidia scita
Syrphoctonus pipiens
Eristalis pectinatus
E. tenax
Myathropa florea
Metasyrphus corollae
Xylota segnis
Platycheirus fulviventris
Cheilosia pagana

L. Brachycera

Chrysops relictus
Machimus atricapillus
Thereva nobilitata

Ptychopteridae

Ptychoptera minuta

Lonchopteridae

Lonchoptera lutea
L. furcata

Bibionidae

Dilophus

Tomosvaryella kuthyi
Pipunculid campestris
Cephalops semifumosus
Eudorylus obliquus

Syrphids - 1st
Libred. teph. no camp

Acalypterates

Tephritis hyoscyami
T. formosa
Urophora cardui galls
Opomyza florum
O. germinationis
Themira pusilla
T. minor
Sepsis orthocnemis
S. fulgens
S. cynipsea
Nemopoda nitidula
Ilione albiveta
* Sciomyza simplex
Tetanocera robusta
T. ferruginea
Elgiva sundewalli
Lyciella rosida
Murettia lupulina
M.
Peplomyza liturata
Calliopum aeneum
Trichotawania praecoxa
Loxocera albiveta
Chusiodors albimanus
Palloptera inusta
Suilla variegata
S. laevifrons
Elachytera brevipennis
E. cornuta
Osciella cariciphila
Chamaemyia polyphaga

Dolichopodidae

Tachytrechus notatus
Hydrophorus bipunctatus
Dolichopus unguiculatus
D. latilimbatus
Hercostomus aerosus
Campsicnemus scambus
Medetera dendrobaena

Empididae

Tachyura rubila
Hybos culiciformis
H. femoratus

Fannia armata

Meigenia mutabilis
Ligeria argenticornis
Phania thoracica
Cinoclura atra

Calypterates

Scathophaga furcata
S. stercoraria
Trichopalpus pratensis
Sarcophaga subvicina
S. frenata
Nyctia halterata
Melanomyia nana
Phyto melanocephala
Lucilia caesar
L. ampullacea
Protocaliphora azurea
Polleria rudis
Musca autumnalis
Phaonia pallida
P. viarum
P. trimaculata
P. errans
P. signata
P. basalis
P. variegata
P. halterata
P. palpata
Hesina impuncta
H. laetifica
H. duplicata
Dasyphora cyanella
Orthellia cornicina
Lispe tentaculata
Coenosia tricolor
Canacea tigrina
Lisprocephala
Graphomya picta
Limnophora tigrina
L. triangula
Morellia simplex
Hebeonema vespertina
H. affinis
H. unbratica
Azelia trigonica
Tachina fera
Eriothrix rufomaculata
* Alophora pusilla (harsh from)
* Subclytia rotundiventris
Siphona geniculata
Musca assimilis
Sarcophaga nigriventris
S. haematodes
Polleria pediculata
Ophyra leucostoma
Azelia chrys/maquarti &
Morellia hortorum
Lispe pygmaea
Euthia consobrina
Voria ruralis
Nemella floridula
Pales parva
Carcelia lucorum
Eumecurus westermanni
Phryxe rereca
P. vulgaris + harschei

MONKSWOOD NNR 28/5/85

Empidids
Empis nuntia

Dolus
Mercostomus parvilanellatus
Phaonia siebecki
~~*P. ...*~~

Eudorylus ~~*longifrons*~~
... kawaii

Acalypterates
Trypetoptera punctulata
Anthraxophagus strigulus
Chlorops speciosus
Sitta caiegata
Palloptera santellata
Psila rosae
Phorbella albocostata *P. debia*

Calypterates

Lynna dubia
Melanomyia nana
Degeeria ~~*.../seperata*~~
Hydrotaea alhipuncta
Nanna flampes
N. tibiella
Scathophaga fuscata
Hydrotaea alhipuncta

Callomyia speciosa
~~*M. ... longipennis*~~
Opetus myra

Chamaemyia polystigma
Hyparellia mod/gm. f

* *Phaonia siebecki*
P. palpata
Fannia mallicula
F. sociella
F. serena
Botanophila striolata
Delia florleggia
Botanophila jugax
Lasionna seminidum
Delia radicum

HODGHTON MEADOW

Ctenophora himaculata
Platystoma seminatum

LADY'S WOOD 29/3/92

Agrostomyia cucuparia
Sepsi fulgens
Scatho fuscata
Campsicnemus abrupus

WOODITTON WD 28/5/85

Phaonia siebecki

UPWOOD 29/3/92

Scatho sterc
Jugata
Tephroschlamys rufiventris

WENNINGTON WD 28/5/85

Thaumatomyia notata
Psila rosae
Botanophila striolata

UPWOOD MEADOWS 28/3/92

Tephroschlamys rufiventris

Copies: M. Massey
15/3/91 R. Key
J. Cole

Symphyla
Libanid, Teph, Camp?

WOODWALTON FEN NNR - DIPTERA RECORDED DURING 1985 AND 1990.

S. J. FALK

TL2283 - mixed fen, carr & damp woodland

STRATIOMYIDAE

- Beris chalybeata* (Forster) ~~28/5/85~~, ~~13/5/90~~, ~~28/5/90~~, ~~17/6/90~~
B. geniculata Curtis ~~8/7/90~~, ~~15/7/90~~
B. vallata (Forster) ~~17/6/90~~, ~~8/7/90~~, ~~15/7/90~~, ~~29/7/90~~
Chorisops tibialis (Meigen) ~~29/7/90~~, ~~12/8/90~~
Nemotelus nigrinus Fallén ~~17/6/90~~, ~~2/6/90~~
Pachygaster leachii Curtis ~~8/7/90~~, ~~15/7/90~~
Chloromyia formosa (Scopoli) ~~28/5/90~~, ~~2/6/90~~, ~~17/6/90~~, ~~8/7/90~~, ~~15/7/90~~
Oplodontha viridula (Fabricius) ~~17/6/90~~, ~~29/7/90~~

XYLOMYIIDAE

- Xylomyia marginata* (Meigen) ~~8/7/90~~, ~~15/7/90~~, ~~12/8/90~~

RHAGIONIDAE

- Chrysopilus aureus* (Meigen) ~~12/8/90~~
Rhagio lineola Fabricius ~~8/7/90~~
R. scolopacea (Linnaeus) ~~13/5/90~~, ~~28/5/90~~, ~~17/6/90~~, ~~8/7/90~~, ~~15/7/90~~
R. tringarius (Linnaeus) ~~15/7/90~~

TABANIDAE

- Chrysops relictus* Meigen ~~8/7/90~~, ~~15/7/90~~
C. viduatus Fabricius ~~8/7/90~~, ~~15/7/90~~, ~~29/7/90~~
Haematopota crassicornis Wahlberg ~~17/6/90~~, ~~8/7/90~~
H. pluvialis (Linnaeus) ~~2/6/90~~, ~~15/7/90~~, ~~29/7/90~~, ~~12/8/90~~
Hybomitra bimaculata (Macquart) ~~28/5/90~~

ASILIDAE

- Machimus atricapillus* (Fallén) ~~29/7/90~~
Laphria marginata (Linnaeus) ~~8/7/90~~
Dioctria atricapilla Meigen ~~28/5/90~~, ~~17/6/90~~
D. baumhaueri Meigen ~~17/6/90~~
D. linearis (Fabricius) ~~12/8/90~~
D. rufipes (Degeer) ~~28/5/90~~, ~~17/6/90~~

THEREVIDAE

- Thereva nobilitata* (Fabricius) ~~8/7/90~~, ~~15/7/90~~, ~~29/7/90~~, ~~12/8/90~~

LONCHOPTERIDAE

- Lonchoptera furcata* (Fallén) ~~2/6/90~~
L. lutea Panzer ~~2/6/90~~

10/2/11
8/10/11
2/10/11

10/2/11
8/10/11
2/10/11

WOODWILLIUM FEN NURS - DISTRICT RECEPTION
T5585 - mixed for, some - damp woodland

STREPTOPODIDAE

- Spizella monticola* (Foster) (10/2/11) (10/2/11)
- S. monticola* (Foster) (10/2/11) (10/2/11)
- S. monticola* (Foster) (10/2/11) (10/2/11)
- Chondestes striata* (Linn.) (10/2/11) (10/2/11)
- Chondestes striata* (Linn.) (10/2/11) (10/2/11)
- Chondestes striata* (Linn.) (10/2/11) (10/2/11)
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- Chondestes striata* (Linn.) (10/2/11) (10/2/11)

STREPTOPODIDAE

- Spizella monticola* (Foster) (10/2/11) (10/2/11)

STREPTOPODIDAE

- Chondestes striata* (Linn.) (10/2/11) (10/2/11)
- Chondestes striata* (Linn.) (10/2/11) (10/2/11)
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STREPTOPODIDAE

- Chondestes striata* (Linn.) (10/2/11) (10/2/11)
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- Chondestes striata* (Linn.) (10/2/11) (10/2/11)

STREPTOPODIDAE

- Rhingia campestris*
- Ferdinande*
- Ep. gross*
- Ep. nite*
- Leuco glauc*
- Sph. mod*
- Chrysoptera spp.*
- Metazgyna spp.*
- Sphaero malherbi*
- Chail vernalis*
- alhipila*
- pergent*
- fratern*
- Nesocia sp.*
- Anas. lineata*
- Xylota abers ?*
- xanthoc*

SYRPHIDAE

- Baccha obscuripennis* Meigen 8/7/90
Melanostoma mellinum (Linnaeus) 28/5/90, 2/6/90, 8/7/90, 29/7/90, 12/8/90
M. scalare (Fabricius) 28/5/90, 17/6/90, 8/7/90, 15/7/90, 12/8/90
Platycheirus ambiguus (Fallén) 22/4/90
P. albimanus (Fabricius) 17/6/90, 8/7/90, 15/7/90, 29/7/90
P. angustatus (Zetterstedt) 13/5/90, 15/7/90, 29/7/90, 12/8/90
P. clypeatus (Meigen) 22/4/90, 13/5/90, 2/6/90, 8/7/90, 15/7/90, 29/7/90, 12/8/90
P. fulviventris (Macquart) 22/4/90, 13/5/90, 28/5/90, 17/6/90, 8/7/90
P. manicatus (Meigen) 22/5/90
P. occultus (Goeldlin, Maibach & Speight) 22/5/90, 2/6/90, 17/6/90, 8/7/90, 29/7/90, 12/8/90
P. peltatus (Meigen) 17/6/90
P. scambus (Staeger) 13/5/90, 28/5/90, 2/6/90
P. scutatus (Meigen) 8/7/90
P. tarsalis (Schummel) 13/5/90
Pyrophaena granditarsa (Forster) 28/5/90, 17/6/90, 29/7/90
P. rosarum (Fabricius) 2/6/90, 17/6/90, 8/7/90, 29/7/90
Dasysyrphus albostriatus (Fallén) 12/8/90 — *Chrysotoxum verralli* Collin 15/7/90
D. tricinatus (Fallén) 22/4/90
Didea sp. (probably *fasciata* Macquart) seen 13/5/90
Epistrophe elegans (Harris) 22/4/90
Episyrphus balteatus (Degeer) 17/6/90, 8/7/90, 15/7/90, 29/7/90, 12/8/90
Leucozona lucorum (Linnaeus) 28/5/90
Melangyna umbellatarum (Fabricius) 12/8/90
Metasyrphus corollae (Fabricius) 2/6/90, 15/7/90
M. latifasciatus (Macquart) 29/7/90
M. luniger (Meigen) 8/7/90, 12/8/90
Sphaerophoria scripta (Linnaeus) 8/7/90, 15/7/90, 12/8/90
Syrphus ribesii (Linnaeus) 22/4/90, 13/5/90, 8/7/90, 15/7/90, 29/7/90, 12/8/90
S. vitripennis Meigen 8/7/90
Chelisia illustrata (Harris) 8/7/90
C. impressa Loew 13/5/90, 28/5/90, 12/8/90
C. pagana (Meigen) 17/6/90, 8/7/90
C. proxima (Zetterstedt) 29/7/90
C. variabilis (Panzer)
Chrysogaster hirtella Loew 13/5/90
Nerascia interrupta (Meigen) 28/5/85, 17/6/90
N. tenax (Harris) 28/5/85, ^{22/4/90} 28/5/90, 2/6/90, 17/6/90, 8/7/90, 15/7/90, 29/7/90, 12/8/90
Orthonevra geniculata (Meigen) 22/4/90, 13/5/90, 28/5/90
Anasimyia contracta Claussen & Torp 28/5/90, 17/6/90
A. interpuncta (Harris) 13/5/90, 28/5/90, 2/6/90, 17/6/90
Eristalinus sepulchralis (Linnaeus) 13/5/90, 2/6/90, 17/6/90
Eristalis abusivus Collin 17/6/90
E. arbutorum (Linnaeus) 12/8/90
E. horticola (Degeer) 29/7/90
E. intricarius (Linnaeus) 29/7/90, 12/8/90
E. nemorum (Linnaeus) 13/5/90, 8/7/90
E. pertinax (Scopoli) 22/4/90, 17/6/90, 8/7/90, 15/7/90, 29/7/90, 12/8/90
E. tenax (Linnaeus) 8/7/90, 15/7/90, 12/8/90
Helophilus pendulus (Linnaeus) 13/5/90, 28/5/90, 17/6/90, 8/7/90, 29/7/90, 12/8/90
Myathropa florea (Linnaeus) 12/8/90

- Parhelophilus versicolor* (Fabricius) 29/7/90
Eumerus strigatus (Fallén) 13/5/90, 17/6/90, 29/7/90
E. tuberculatus Rondani 15/7/90
Neocnemodon brevidens (Egger) 8/7/90, 15/7/90, 29/7/90
Pipiza austriaca Meigen 8/7/90
P. bimaculata Meigen 28/5/85 - definite; 15/7/90 intermediate with *noctiluca*
P. noctiluca (Linnaeus) 28/5/90, 8/7/90
Trichopsomyia flavitarsis (Meigen) 28/5/90, 17/6/90
Volucella bombylans (Linnaeus) 17/6/90, 8/7/90, 29/7/90
V. pellucens (Linnaeus) 8/7/90, 15/7/90
Chalcosyrphus nemorum (Fabricius) 8/7/90, 15/7/90, 29/7/90
Criorhina asilica (Fallén) 28/5/85, 13/5/90
C. berberina (Fabricius) 28/5/85
C. floccosa (Meigen) 28/5/85, 13/5/90
Syritta pipiens (Linnaeus) 17/6/90, 8/7/90, 29/7/90
Tropidia scita (Harris) 28/5/85, 13/5/90, 28/5/90, 2/6/90, 17/6/90, 8/7/90, 15/7/90
Xylota segnis (Linnaeus) 13/5/90, 28/5/90, 8/7/90, 15/7/90
X. sylvarum (Linnaeus) 28/5/90, 8/7/90, 29/7/90

CONOPIDAE

- Conops flavipes* Linnaeus 15/7/90
C. quadritarsata Degeer 29/7/90, 12/8/90
Myopa testacea (Linnaeus) 13/5/90
Sicus ferrugineus (Linnaeus) 29/7/90

TEPHRITIDAE

- Urophora cardui* (Linnaeus) 28/5/90, 17/6/90, 8/7/90
Anomoia permunda (Harris) 8/7/90, 29/7/90, 12/8/90
(Myoleja caesia) (Harris) 8/7/90
Euleia heraclei (Linnaeus) 29/7/90
Cerajocera tussilaginis (Fabricius) 8/7/90, 15/7/90, 12/8/90
Terellia ruficauda (Fabricius) 17/6/90
Paroxyna absinthii (Fabricius) 15/7/90
P. musella (Loew) 17/6/90, 15/7/90
Tephritis bardanae (Schrank) 8/7/90, 15/7/90
Xyphosia miliaria (Schrank) 8/7/90, 15/7/90

PLATYSTOMATIDAE

- Rivellia syngenesiae* (Fabricius) 17/6/90, 29/7/90

OTITIDAE

- Seioptera vibrans* (Linnaeus) 8/7/90
Merina frondescentiae (Linnaeus)
Ceroxys urticae (Linnaeus) 17/6/90
Melieria crassipennis (Fabricius) 28/5/90, 2/6/90, 17/6/90, 8/7/90, 29/7/90
M. omissa (Meigen) 17/6/90, 29/7/90

MICROPEZIDAE

Calobata cibaria (Linnaeus) 22/4/90, 13/5/90, 28/5/90, 2/6/90, 17/6/90, 8/7/90, 29/7/90
C. commutata (Czerny) 28/5/90, 2/6/90, 17/6/90 28/5/85

TANYPEZIDAE

Tanypeza longimana Fallén 17/6/90, 8/7/90

PSILIDAE

Psila obscuritarsis 28/5/85

P. 'rosae' (Fabricius) 28/5/85, 13/5/90, 28/5/90, 12/8/90

LAUXANIIDAE

Trigonometopus frontalis (Meigen) 17/6/90

Minettia longipennis (Fabricius) 15/7/90

M. fasciata (Fallén) 12/8/90

Sapromyza sexpunctata Meigen 12/8/90

S. sordida Haliday 12/8/90

Lyciella decipiens (Loew) 17/6/90, 12/8/90

Tricholauxania praeusta (Fallén) 8/7/90

Callicopum geneum (Fallén) 12/8/90

HELEOMYZIDAE

Eccoptomera microps (Meigen) 13/5/90

SEPSIDAE

Sepsis punctum (Fabricius) 28/5/85, 12/8/90

• *Themira punctus* 28/5/85

SCIOMYZIDAE

Colobaea bifasciella (Fallén) 13/5/90, 28/5/90, 17/6/90

C. punctata (Lundbeck) 17/6/90

Pherbellia dorsata (Zetterstedt)

• *P. ventralis* (Fallén) ~~28/5/85~~ 22/4/90, 13/5/90, 28/5/90, 17/6/90,

P. 'spindel' 28/5/90

• *Pteromicra glabricula* (Fallén) 2/6/90 → *pectorosa*

Sciomyza simplex Fallén 28/5/90, 17/6/90

Antichaeta analis (Meigen) 22/4/90, 13/5/90, 28/5/90, 17/6/90

A. obliviosa Enderlein 28/5/85, 22/4/90

Elgiva cucularia (Linnaeus) 28/5/85, 22/4/90, 17/6/90

E. sundewalli Kloet & Hinks ^{28/5/85} 22/4/90, 13/5/90, 28/5/90, 2/6/90, 17/6/90, 8/7/90, 29/7/90

Hydromyza dorsalis (Fabricius) 22/4/90, 13/5/90, 28/5/90

Knutsonia albiveta (Scopoli) 28/5/90, 17/6/90, 29/7/90

Limnia paludicola Elberg 28/5/90, 17/6/90, 7/7/90

Pherbina coryleti (Scopoli) 17/6/90, 8/7/90, 29/7/90

Rensocera pallida (Fallén) 13/5/90, 19/5/90

Sepedon spirifer (Scopoli) 28/5/85, 22/4/90, 13/5/90, 28/5/90, 17/6/90,

Tetarocera arrogans (Meigen) 13/5/90, 17/6/90

T. elata (Fabricius) 8/7/90

• *T. ferruginea* Fallén 28/5/85, 22/4/90, 13/5/90, 28/5/90, 17/6/90, 29/7/90

T. robusta Loew 13/5/90, 28/5/90, 17/6/90, 29/7/90, 12/8/90

PALLOPTERIDAE

- Palloptera arcuata* (Fabricius) 13/5/90
P. scutellata Maynard 22/4/90
P. umbellatarum (Fabricius) 17/6/90, 15/7/90

OPOMYZIDAE

- Opomyza florum* (Fabricius) 17/6/90, 21/7/90, 29/7/90
O. germinationis (Linnaeus) 17/6/90
O. petrei Messel 22/5/90, 2/6/90, 17/6/90

DIASTATIDAE

- Diastata adusta* Meigen 22/4/90, 2/6/90, 17/6/90

CHLOROPIDAE

- Lipara lucens* Meigen 13/5/90, 22/5/90, 2/6/90, 17/6/90
L. similis Schiner 22/5/90, 2/6/90
Calamancosis glyceriae Narchuk ^{24/5/90} ~~17/6/90~~ ✓ *Elachiptera cornuta* (Fallén) 22/4/90
Platycephala plaiytrons (Fabricius) 29/7/90
Cryptoneura flavitarsis (Meigen) 29/7/90
Elachiptera cornuta (Fallén) 22/4/90
Calamancosa apnea 22/5/85, *glyceriae* 22/5/85
" ~~*apnea* 22/5/85~~
Oscarella nigerrima 22/5/85 O. frk 22/5/85
" *nitidissima* " "
" ~~*posticata*~~ " " *nitidissima*
" *trochantera* "
Chlorops ? *obscurus* "

Grhybini
Drosophila pallidipes 17/6/90
Coeria ? auricauda 22/4/90
Myzella modesta " "
Panytra fonsarum " "
Myzella flavicornis 17/6/90
→ *Drosophila obscurus* 17/6/90

Continued from previous
Wood Walton list (15/3/91)

26/2/92 many additions since 15/3/91
J. Cole
NCC Region

RHINOPHORIDAE

Melanomyia nana (Meigen) 28/5/85
Phyto melanocephala (Meigen) 28/5/85
Paykullia maculata (Fallén) 12/8/90

CALLIPHORIDAE *viridoorena* * correction since 15/3/91 26/2/92

Melinda gentilis Robineau-Desvoidy
Bellardia agilis (Meigen) 28/5/90
B. biseta (Kramer) 28/5/90, 17/6/90
Lucilia caesar (Linnaeus) 17/6/90
Pollenia pallida Rohdendorf 12/8/90
P. varia (Meigen) 28/5/90, 8/7/90 17/6/90
Stomorphina lunata (Fabricius) 12/8/90

SCATHOPHAGIDAE

Norellusoma opacum (Loew) 22/4/90
N. spinimanum (Fallén) 2/6/90, 17/6/90
Cordilura ciliata Meigen^{28/5/85} 17/6/90, 8/7/90, 29/7/90, 12/8/90
C. impudica Rondani^{28/5/85} 13/5/90, 28/5/90, 2/6/90, 17/6/90
Nanna fasciata (Meigen) 28/5/85, 22/4/90, 13/5/90, 2/6/90
N. flavipes (Fallén)^{28/5/85} 13/5/90, 28/5/90
Cleigastra apicalis (Meigen) 13/5/90, 28/5/90, 17/6/90
Chaetosa punctipes (Meigen) 13/5/90, 28/5/90, 17/6/90, 8/7/90
Scathophaga decipiens Haliday 13/5/90
S. furcata (Say)^{28/5/85} 22/4/90, 13/5/90, 17/6/90, 8/7/90
S. inquinata Meigen^{28/5/85} 22/4/90
S. inquinata Meigen / *S. lutaria* (Fabricius) ♀ 17/6/90
S. suilla (Fabricius) 28/5/85
S. lutaria 28/5/85 ♂

MUSCIDAE

Graphomya maculata (Scopoli) 12/8/90 *G. picta* 17/6/90

Phaonia incana Wiedemann 28/5/85

fuscata Fallén 22/4/90, 17/6/90

Lispe tentaculata Degeer 2/6/90 22/4/90

Phaonia populi (Meigen) 22/4/90

Helvia obscurata Meigen 17/6/90

Thricops semicinereus Weidemann 28/5/85

Hydrotaea tuberculata Rondani 28/5/85

Phaonia errans 28/5/85 (Meigen)

Helina laetifica 28/5/85 (Robineau-Desvoidy)

impuncta 28/5/85

Limnophora tigrina 17/6/90, 13/5/90 28/5/90

Lispecephala erythroscera 22/4/90 28/5/85 17/6/90 2/6/90

Notable * *Dialytura atriceps* 13/5/90

Ctenosia pumila 13/5/90 22/4/90 17/6/90 28/5/85 19/5/91

Caricea tigrina 13/5/90, 28/5/90, 17/6/90, 2/6/90, 12/8/90 28/5/85

Phaonia halterata 28/5/85

Allognosta agromyzina 28/5/85
Ctenosia thictor 28/5/85

Dolus

Argyra diaphana 13/5/90 28/5/85 17/6/90 2/6/90

argyrocephala 8/7/90

Neurigona quadryfasciata 28/5/85

Dolichopus pennatus 13/5/90 17/6/90 28/5/85

linearis 13/5/90

popularis 28/5/85

Campicnemys scambus 22/4/90

Sympterus duxatleri 29/7/90 28/5/85

Mecostomus metallicus 28/5/85

Raphium caliginosum 28/5/85

Anthos

Botanophila fugax 28/5/85

Delia radicum 28/5/85

D. lamellata 28/5/85

Hydrophoria larvifera 28/5/85

Botanophila striolata 28/5/85 22/4/90

Pegomya infirma 28/5/85 22/4/90

Laniomma seminudum 28/5/85

Botanophila phrenione 28/5/85

Paradelia intersepta ♀ 28/5/85 check

✓ *Phorbia juncorum* ♀ 27/3/92 check

Pegomya aestiva 27/3/92

Della florilega 22/4/90

Anthomyia procellaris 28/5/85

See

with with

Bibionids

Bibio marci 22/4/90

Dilophus febrilis 22/4/90 29/7/90

Ptychopteridae

Ptychoptera contrainata 28/5/85

Sarcophagidae

Sarcotachinella sinuata 17/6/90

Nygelia katterata 28/5/85

J Cole } 26/2/92
@cc winds } corrections

WOODWALTON FEN - ADDITIONS TO 1985, 1990 DIPTERA LIST

Ptychopteridae

Ptychoptera contaminata 28/5/85

Bibionidae

Bibio marci 22/4/90

Dilophus febrilis 22/4/90, 29/7/90

Dolichopodidae

Argyra diaphana 13/5/90, 28/5/85, 2/6/90, 17/6/90

A. leucoccephala 2/7/90

Neurigona quadritarsata 28/5/85

Dolichopus pennatus 28/5/85, 13/5/90, 17/6/90

• *D. linearis* 13/5/90 = *latelimbatus*

D. popularis 28/5/85

Campsicnemus scambus 22/4/90 • 22/4/90

Sympycnus dessoutteri 28/5/85, 29/7/90

Hercostomus metallicus 28/5/85

Rhaphium caliginosum 28/5/85

• *Hercostomus assimilis* 17/6/90, 13/5/90, 28/5/90

Chloropidae

(?) *Gampsocera innata* 28/5/85

* *Chlorops gracilis* 29/7/90

C. pumilionis 13/5/90 • 29/7/90, 12/8/90

C. troglodytes 12/8/90 • 28/5/85

C. brevimanus 28/5/90, 17/6/90 28/5/85 29/7/90 2/6/90

C. hypostigma 28/5/85 13/5/90, 17/6/90

Sarcophagidae

Sarcotachinella sinuata 17/6/90

Nyctia halterata 28/5/85

Sarcophaga dissimilis 28/5/85

• Further additions 30/4/92

Tachinidae

• *Ocytata pallipes* 12/8/90

• *Lydella stabularis* 12/8/90 28/5/90 28/5/85

• *Swaldia muscaria* 20/4/90

• *Siphona geniculata* 22/4/90, 12/8/90 28/5/85

• *Voria vernalis* 28/5/90

Calliphoridae

• *Eggisops pecchiolii* 28/5/85

Empididae

• *Cedria*

• *Hybos femoratus*

• *Xanthomyia stercorea* 28/5/85, 28/5/90, 17/6/90, 13/5/90

• *Paratanytrops barbatula* 17/6/90, 13/5/90

• *Megacyrtus crassirostris* 28/5/85, 13/5/90

• *Paratanytrops dentipes* 13/5/90 28/5/90

• *Empis nigripes* 28/5/85

• *E. nuntia* 28/5/85

Anthos

Eristalisia festiva 28/6/92

Anthomyia procellaria 19/5/91

Delia coarctata 15/7/90

Pegomya solennis 12/8/90

Delia coronaria 28/5/85

• *Chlorops*

Chlorops frontalis TWI

• *Chlorops flavipes* 28/5/90, 13/5/90, 17/6/90

• *C. ~~ch~~ ~~frontalis~~* 12/8/90

C. flavipes TWI 28/5/90

• *C. rossicus* 28/5/85 ✓

• *Cetema elongata/similis* 17/6/90

C. parumpipina 29/7/90

• *Anthomyia gracilis* ^{collin} ~~sinuata~~ 13/5/90

Fannia mollissima 22/4/90

F. serena 28/5/85

F. ~~ser~~ univosa 28/5/85

Pyrus

Chalurus spurius 28/7/90

Dasytrophia hungarica 29/7/90

17/6/90

Dasytrophia andersoni 28/5/90

Pyrunculus campestris 12/8/90

28/7/90

2/6/90

17/6/90

Eudorylas obscurus 28/7/90

Cephus perulatus 29/7/90 (det

• *C. chionocae* 13/8/86 det DG

• *Trichia clavipes* 8/7/90

• *Bicellaria vana* 28/5/85

• *Platypalpus exilis* 28/5/85

• *P. coarctata* 28/7/90 need ~~body~~

• *P. curvifrons* 28/5/90, 28/7/90, 28/5/90

• *P. ~~curvifrons~~* 2/6/90

• *P. pallidicornis* 28/5/90 17/6/90

J Cole
NCC Westmids } 26/2/92
additions since

TL28

MUNTS

Symphyla
551
Lband holoph/leops

WOODWALTON FEN 19/5/91

Aculeates

- Bombus pascuorum
- Andrena chrysoceles
- Andrena subopaca
- Lasioglossum calceatum
- Andrena scotica
- Nomada flava
- Bombus terrestris

MM

- Nomada marshamella
- Vespa vulgaris
- Nomada flavoguttata
- N. fabriciana
- Lasioglossum albipes

Symphyla

- Platycheirus fulviventris
- Tropidia scita
- Neorasia tenuis
- Melanostruma scalare
- Baccha
- Pipiza notiluca
- 9 Dasytyphus venustus
- Xylota segrisi
- Symphyla ribesii
- 70 * Xylotomina lenta
- Leucosona lucorum
- Cheilosia impressa
- Criorhina floccosa
- C. berberina
- Eristalis pectinax
- Cheilosia variabilis
- * Anasimyia interpunctata
- 71 Cheilosia albitarsis
- Platycheirus clypeatus
- * Orthoneura geniculata
- Melanostruma mellinum
- Platycheirus albimarus
- Parhelophilus
- Metasympyla luniger
- Pyrophana granditarsa
- P. rosarum
- Platycheirus tarsalis
- P. scutatus
- Helophilus pendulus
- Eumerus
- Platycheirus angustatus
- P. occultus

Larger Brachycera

Bombyliidae

Bombylius major

Rhagionidae

Rhagio scolopacea

Stratiomyidae

is chalybeata

Acalypterates

Sciomyzidae

- Elgiva sollicita
- * Antichaeta obliosa
- Tetanolocera ferruginea
- Sciomyza simplex

Pallopteridae

- Palloptera saltuum
- P. arcuata

Opomyzidae

- Opomyza tripunctata

Micropezidae

- Calobata cibaria

Sepsidae

- Themira annulipes
- Sepsis cynipsea

Chloropidae

- Elaeophora cornuta
- Chlorops brevimarus

Psilidae

- Psila 'rosae'

Chlorops planifrons frontalis

- Tephrochlamys flaves
- Chamaemyia paludosa

Empididae

- * Empis nigritarsis
- * Platyphus curvatus
- ~~Platyphus autumnalis~~
- * Hilara longistylus curtisi
- * Empis nigripes
- * Paratambora dentipes
- * Rhamphomyia sulcata
- * Megacyllarus crassirostris
- * Xanthomyia stercora
- * Empis tessellata
- * Oedaea holmgreni

Dolichopodidae

- Argyrodia phana
- Hercostomus cuprea
- M. metallicus
- ~~M. metallicus~~
- Symptenus desautteri

Bibionidae

- Dilophus febrilis
- Bibio marci
- B. leucopterus
- B. edwardsi/varipes

Calypterates

Scathophagidae

- Scathophaga stercoraria
- S. furcata
- S. inquinata
- Norellisoma spinimanum
- Cleigastira apicalis
- Cordilura albipes
- C. impudica
- Chaetosa punctipes
- Nanna flavipes
- N. fasciata

Muscidae

- Musca autumnalis
- Thricops semicinereus
- Mesembria meridiana
- Helina laetifica
- Mydaea urbana
- M. scutellaris
- Phaonia errans
- P. variegata
- P. populi
- P. fusca
- P. halterata
- P. palpa
- * Dialytina atriceps
- Helina impureta
- Limnophora tigrina
- Hydrotaea dentipes
- Caricea tigrina
- Coenosia purula
- Lisoporephala erythroscera
- Coenosia infantula

Calliphoridae

- Bellardia pandia (=biseta)
- B. vulgaris (=agilis)
- Pollenia grissectomentosa (=varia)

- Melanomyia nana
- Lucilia caesar

Sarcophagidae

- Heteromyia haemorrhoida
- H. depressa
- Nyctia halterata

Tachinidae

- Phryxe nemea
- P. vulgaris
- Oswaldia muscaria

Fannia serena

- Pygocentrus constrictus
- Eudomyia obscurus

WOODWALTON FEN 7/9/91 - single 5 hr visit, fine weather

Aculeates

- *Bombus lapidarius*
- *Vespa germanica*
- *V. vulgaris*
- *V. rufa*
- *Chrysis angustula*
- *Ectemnius cavifrons*
- *E. continuus*
- *Lasioglossum calceatus*
- *Psithyrus vestalis*
- *Lasioglossum alpinus*
- *Bombus lucorum*
- *B. pascuorum*

Symphids

- Eristalis tenax*
Syrphus ribesii
Sphaerophoria scripta
Helophilus pendulus
Platycheirus fulviventris
Myathropa florea
Eristalis pectinax
Metasymphys luniger
Melanostoma scalare
Syritta pipiens
Platycheirus clypeatus
Eumerus strigatus
Platycheirus scutatus
P. angustatus
Melanostoma mellinum
Neoscia
Platycheirus manicatus
Episyrphus balteatus
Baccha sp
Sphaerophoria rueppelli
Eristalis horticola
Eumerus strigatus
Chilosia impressa
C. pagana
Eristalis nemorum
E. intricarius
Helophilus hybridus
Pyrophæna rosarum
Eristalis arbustorum
Helophilus parallelus
Syrphus vitripennis

Conopidae

- Conops quadrifasciatus

Asilidae

- Machimus atricapillus

Lonchopteridae

Lanchoptera

- Butterflies
 Speckled Wood
 Green veined White
 Small White
 Red Admiral
 Small Tortoiseshell
 meadow Brown

Dragonflies

- Sympetrum sanguinum*
Aeshna grandis
A. cyanea
A. mixta
Ischnura elegans

Empididae

- *Hybos femoratus*
- *H. curvifemoris*
- *Bicellaria rana*
- *Piatypalpus maculipes*
- *P. longicornis*
- *P. pallidiventris*

Sciomyzidae

- Elgiva sollicita
Tetanusocera hyalipennis
T. robusta
T. ferruginea
Seredon spinipes
Trypetoptera punctulata
Sepsidae
Themira arulipes
T. minor
Sepsis violacea
S. fulgens
S. cynipsea

Lauxaniidae

- Sapromyza sordida*
Lyciella pallidiventris/stylata ♀
L. torida
L. decipiens
Minettia fasciata
Calliopyrum aeneum

Opomyzidae

- Opomyza florun*
O. germinationis

Chusidae

- Chusiodon albimanus

Helcomyzidae

- Suilla bicolor*
? *Tephroschlamys rufiventris* - pre-natural
chlorocentrals
present

Psilidae

- Psila 'rosae'* ♀
Loxocera albiset
L. ichneumonea

Micropezidae

- Calobata cibaria
C. commutata
Chloropidae
Platycephala planifrons
Chlorops ~~serripes~~ ~~serripes~~ ~~serripes~~
Diastatidae
C. ringens

Diastratidae

- Diastata fuscata

Delichnoididae

- Argyria ~~leucophaea~~ ^{remota} argentina ♀
- Camysicremnus scambus
- Syntormon pallipes
- Dolichopus plumipes
- ? D. latelimbatus / ~~subtilis~~
- Hypophyllus obscurellus
- Sympyenus desoutterii

Scathophagidae

- Scathophaga inquinata
S. stercoraria
Megaphthalma pallida

Calliphoridae

- Calliphora vicina
Onesia vulgaris
O. pandia
Calliphora vomitoria
Lucilia caesar
Pollenia rudis
P. pedunculata

Muscidae

- Graphomyia maculata*
Hebecnema affinis
H. umbratica
Mydaea urbana
M. nebulosa
Melina obscurata
H. impuncta
Phaonia signata
P. variegata
P. halterata
P. basalis
P. trimaculata
P. pallida
P. viarum
Muscina dissimilis
Orthellia cornicina
O. caesarion
Morellia simplex
M. aenescens
Phaonia errans
Musca autumnalis
Hydrotaea bimaculata
Caricea tigrina
Stomoxys calcitrans
Coenosia tricolor
C. pumila

Sarcophagidae

- Sarcophaga ~~vittata~~ ^{subnervosa}
 Meteronychia vagans
 Sarcotachinella sinuata
 Thyrsocnema incisulobata

Tachiridae

- Voria ruralis
Phryxe vulgaris

P. querculus canystris

TC 28

Cryptomera hantoni
reared Spring 1991

Crops, L. brach.
-8

WOODWALTON FEN

Aculeates

- Bombus lapidarius 23
- B. pascuorum 23
- B. pratorum 21
- B. terrestris 213
- B. hortorum 23
- B. lucorum 21
- Dolichopoda sylvestris 2
- Myiagrus pectoralis 2
- H. annularis 2
- Andrena minutula 2
- Lasioglossum alpinum 2
- Omalus auratus 2
- Cryptoxylon attenuatum 2
- Andrena bicolor 21
- Nomada fabriciana 2
- Andrena haemorrhoa 1
- A. praecox 1 * Passalocera clypealis 2
- A. clarkella 1

Syrphidae

- Platycheirus fulviventris 2
- P. clypeatus 2
- Tropidia scita 2
- Episyrphus balteatus 2
- Syrphia pipiens 2
- Volucella bombylans 2
- V. pellucens 2
- Cheilosia illustrata 2
- C. pagana 2
- Eristalis nemorum 2
- E. pertinax 2
- Myathropa florea 2
- Helophilus pendulus 2
- Parhelophilus frutetorum 2
- Syrphus ribesii 2
- Myathropa florea 2
- Xylota segnis 2
- Neosapcia tenuis 2
- Eristalis tenax 1
- Cheilosia grossa 1

Conopidae

- Conops flavipes 2
- Sicus ferrugineus 2
- Physocephala rufipes 2

L. Brachycera

- Chrysops pictus 2
- C. quadratus 2
- Hybomitra bimaculata 2
- Haematopota pluvialis 2
- Chloromyia formosa 2
- Pachygaster atra 2
- P. leachi 2
- Nemotelus nigrinus 2
- Beris vallata 2
- Thereva nobilitata 2
- Rhagio scotopacea 2
- R. tingaria 2
- R. lineola 2
- Dioctria rufipes 2
- D. baumbachii 2
- D. atricapillus 2

- Machinus atricapillus 2
- Chrysopulus cristatus 2
- C. viriliformis 2
- Leptogaster cylindrica 2
- Oxycera trilineata 2

Butterflies

- Brimstone 2
- G.V. White 2
- S. Wood 2
- M. Brown 2
- Comma 2
- L. Skipper 2

Acalypterates

- Mydoga caesia 2
- Cerajocera tussilaginis 2
- Xiphosia miliaria 2
- Urophora cardui 2
- U. jaceana 2
- U. quadripunctata 2
- Terellia ruficauda 2
- Sepris cynipsea 2
- S. fulgens 21
- Thermia annulipes 2
- T. pusilla 2
- Calobata cibaria 2
- Meliera crassipennis 2
- Seigiera vibrans 2
- Merina frondescens 2
- Opomyza florum 2
- Minettia inusta 2
- M. rivosia 2
- Lyciella rorida 2
- L. decipiens 2
- Chrysomya demissa 2
- Sepedon spinipes 2
- Elgiva rufa 2
- Tetanocera ferruginea 2
- Lipara lucens 2
- Cryptomera 2
- Cetema elongata/similis 2
- N Chlorops gracilis 2 troglodytes 2
- C. scalaris 2 hypostigma 2
- C. brevipennis 2
- Cetema submyopina 2
- Sulla variegata 1
- Elgiva acicularia 1
- Diastata adusta 1
- Empididae
- Elachiptera cornuta 1
- E. diastema 1
- Pellonera trimaculata 2

mining
Calamagrostis
Chamaecyparis

✓ RDB2 *

Lanchopteridae & Platygasteridae

- Lanchoptera lutea 1
- L. furcata 1
- Opetia nigra 3

- Verrillia aucta 2
- Timosvaryella sylvestris 2

Empididae & Dolichopodidae

- Poecilobothrus nobilitata 2
- Argyra diaphana 2
- Dolichopus unguiculatus 2
- D. popularis 2
- Hecostomus chrysopygus 2
- H. aeropus 2
- H. metallicus 2
- H. assimilis 2
- H. nigripennis 2
- Argyra argentea 2
- Campsicnemus scambus 2
- Argyra vestita 2
- Chrysotus gramineus 2
- C. ciliipes 2
- Phyllostomus melanoccephala 2
- Hibos grossipes 2
- Eudomyia obliquus 2
- E. zonellus 2
- Hilera lurida 2
- N Tachypeza fusca 2
- Platypalpus curvipes 2
- P. candicans 2
- P. pallidicornis 2
- Tidiana clavigera 2

- Siphonura perisulcata
- Phryxe nemex 2
- Ocytata pallipes 2

Calypterates

- Hydromyzalivens 2
- Scathophaga ~~guilla~~ 2
- S. stercoraria 12
- Norellisma spinimanum 2
- Cleigastrea apicalis 2
- Lucilia caesar 2
- Onesia parva (biseta) 2
- Calliphora vicina 2
- Pollenia angustigena 2
- P. griseotomentosa 12
- Melanomyia nana 2
- Rhinophora lepida 2
- Eriothrix rufomaculata 2
- Sarcophaga subvicina 2
- S. frenata 2
- S. haemorrhoa 2
- S. incusobata 2
- S. rosellei 2
- S. sinuata 2
- Caricea tigrina 2
- Coenosia pumila 2
- C. intermedia 2
- Schoenomyza litorea 2
- Phaonia viarum 2
- P. basalis 2
- P. errans 2
- P. nitida 2 checked by Pont
- Muscina assimilis 2
- Morellia simplex 2
- Melina setiventris 2
- Eustalomyia
- Calliphora vomitoria 1
- Dasyphora cyanea 1
- Melina viridocyanea 1
- Scathophaga furcata 13
- Melina lactifica 1
- Lisosphala erythrogastra 1
- Melina lactifica 1
- M. obscurata 2

- Sarcophaga pumila 2
- Phyto melanoccephala 2
- Mydaga aricula 2

Fannia fuscula - 28/6/92
F. nitida 28/6/92

Aculeates up to 1990 (but not beyond) mm

Aculeate Hymenoptera and Sawflies (Symphyta) recorded at Woodwalton Fen National Nature Reserve mostly in 1990, with a review of older records for scarce aculeate species reported from this site

Introduction

Woodwalton Fen, together with Chippenham Fen and Wicken Fen, sadly ^{now} represent the only substantial remnants of the vast 'Fenland' that once covered the lowland basin south of the Wash. Fortunately these sites are all managed for nature conservation, though none are entirely immune to the threat of deterioration. This could occur through lowered water tables, eutrophication from agricultural chemicals and simply the isolation within largely hostile farmland that they experience. They have all suffered substantial neglect in the past due to the decline of traditional fenland practices (such as reed or sedge cutting, dyke maintenance, etc). As a consequence of this they now possess varying amounts of scrub, carr and secondary woodland at the expense of open wetland vegetation. There is strong evidence from many insect groups that they have lost some of their richness during this period.

The following list is compiled from several visits to the site in 1990 (plus a previous one in 1985). It provides some indication of the present composition of the aculeate fauna, though it is unlikely to be anywhere close to definitive. The sawflies were only dabbled with and the aculeate recording, whilst more intensive, took second place to the recording of Diptera.

ACULEATA

CHRYSIDIDAE (Ruby-tailed wasps). These are cleptoparasites of other aculeates with the exception of members of the genus Cleptes which parasitise sawfly pupae. Common unless stated.

Cleptes semiauratus (Linnaeus) - a scarce (Nationally Notable) apparently highly declined species. Swept from lush herbage (e.g. Urtica, Epilobium), beside a shady ride. 8.7.90.

Omalus auratus (Linnaeus) - an exploiter of Pemphredon and Passaloecus species. 17.6.90.

Chrysis angustula Schenck - an exploiter of Ancistrocerus trifasciatus and Crabro spp. 8.7.90 ✓ ~~7.7.90~~

Chrysis ignita (Linnaeus) - an exploiter Ancistrocerus species. ~~8.7.90~~ 12.8.90. ~~12.8.90~~

EUMENIDAE (Mason wasps). The listed species are common, nesting in dead wood, hollow stems and other cavities, stocking their nest cells with caterpillars or leaf beetle larvae.

Ancistrocerus parietinus (Linnaeus) - 8.7.90.

A. trifasciatus (Muller) - 8.7.90, 15.7.90, 12.8.90.

Symmorphus mutinensis (Baldini) - 17.6.90, 12.8.90.

VESPIDAE (Social wasps). The listed species are common and either nest in the ground, in buildings or within natural cavities (Vespula) or suspend their nests from branches and twigs (Dolichovespula - 'Tree wasps'). The Hornet (Vespa crabro) was not seen, but is common in the area and probably occurs at this site. It is listed from here in the Victoria County History (Omer-Cooper, 1926).

Dolichovespula sylvestris (Scopoli) - 29.7.90.

Vespula rufa (Linnaeus) - 17.6.90, 15.7.90, 29.7.90, 12.8.90.

V. germanica (Fabricius) - 8.7.90, 15.7.90, 29.7.90, 12.8.90.

V. vulgaris (Linnaeus) - 8.7.90, 12.8.90

mm

167 POMPILIDAE (Spider wasps). Mostly ground nesting species (though Dipogon species, which might be present here, nest in dead wood), stocking their nest cells with spiders.
Priocnemis fennica Haupt - a widespread species seemingly associated with marshes and water margins. 29.7.90.

SPHECIDAE (Digger wasps, Hunting wasps, etc). The listed species nest variously in dead wood, hollow twigs, thatch, reed stems, etc, except Crabro cribrarius and Crossocerus ovalis which nest in dry ground. Larger species (e.g. Ectemnius, Crabro) stock nest cells with fairly large flies, whilst smaller ones (e.g. Pemphredon, Passaloecus) use prey such as aphids. Common unless stated.

Trypoxylon attenuatum Smith - particularly common here, a huge nesting aggregation being found in the thatched roof of a shelter. 17.6.90, 8.7.90, 29.7.90, 12.8.90.

T. clavicerum Lepeletier - 8.7.90.

Crabro cribrarius (Linnaeus) - 29.7.90, 8.7.90.

Crossocerus ovalis Lepeletier & Brulle - a rather scarce species. 29.7.90.

C. annulipes (Lepeletier & Brulle) - 8.7.90.

C. megacephalus (Rossius) - particularly evident around large bodies of dead wood. 28.5.90, 17.6.90, 15.7.90, 29.7.90.

C. nigritus (Lepeletier & Brulle) - a rather scarce species. 8.7.90.

C. podagricus (Vander Linden) - 15.7.90, 29.7.90.

C. binotatus Lepeletier & Brulle - a scarce (Nationally Notable) species found nesting in a rotting elm or poplar stump. One female had a snipe fly (Rhagio scolopacea) as prey. 15.7.90.

Ectemnius cavifrons (Thomson) - this and the following two species were mostly in evidence around large bodies of dead wood. 15.7.90.

E. continuus (Fabricius) - 28.5.90, 29.7.90, 12.8.90.

E. cephalotes (Olivier) - 15.7.90.

Rhopalum coarctatum (Scopoli) - 2.7.90, 29.7.90.

Psen dahlbomi (Wesmael) - 12.8.90. 8/7/90

Psemulus pallipes (Panzer) - particularly numerous. 28.5.90, 8.7.90, 15.7.90.

Pemphredon lugubris (Fabricius) - particularly evident around large bodies of dead wood. 28.5.90, 29.7.90, 12.8.90.

P. inornata Say - 8.7.90.

P. lethifer (Shuckard) - 17.6.90.

→ Passaloecus clypealis Faester - a very rare species (RDB3) only presently known from about a dozen ancient wetland sites within East Anglia and south-east England. Nests in Lipara (cigar) galls on Phragmites and ^{in the hollow ends of} ~~probably~~ cut reed stems. 28.5.90.

P. singularis Dahlbom - 17.6.90, 8.7.90, 15.7.90.

COLLETIDAE (Short-tongued bees). The genus involved here consists of small, almost hairless bees that nest in reed stems, hollow twigs, etc. Both species are fond of bramble blossom.

Hylaeus communis Nylander - a common species. 8.7.90, 15.7.90.

H. pectoralis Forster - a very local species of wetlands, nesting mostly in Lipara (cigar) galls on Phragmites. 17.6.90.

ANDRENIDAE (Mining bees). Ground-nesters, requiring dry and sunny situations for this. The listed species are all common.

Andrena bicolor Fabricius - a double brooded species visiting a variety of flowers. 12.8.90.

Andrena chrysosceles (Kirby) - particularly evident around hawthorn blossom. 13.5.90.

A. haemorrhoea (Fabricius) - this and the next species were particularly evident around blackthorn and hawthorn blossom. 13.5.90.

A. jacobii Perkins - 13.5.90.
A. minutula (Kirby) - 8.7.90.

HALICTIDAE (Mining bees). Similar habits to the previous family.
Lasioglossum albipes (Fabricius) - a common species. 29.7.90.

MELITTIDAE (Mining bees). Generally similar habits to the previous family, though the one species involved here is highly specialised for a life in wetlands.

Macropis europaea Warncke - A very scarce species (Nationally Notable), though common here. Females obtain pollen only from Yellow Loosestrife and use the floral oils to waterproof their nests in damp peat. Males additionally visit thistles, brambles and umbellifers. A small nesting aggregation (3-4 burrows) was found beside a clay path next to a seasonally-flooded fen compartment. Very few nesting observations have ever been reported (G. Else - pers. comm.). 8.7.90, 15.7.90, 29.7.90, 12.8.90.

MEGACHILIDAE (Leaf-cutter and Mason bees). The listed species are widespread and nest in dead wood.

Chelostoma florissomne (Linnaeus) - 28.5.90 (gathers pollen only from Ranunculus spp.).

Megachile ligniseca (Kirby) - 29.7.90.

ANTHOPHORIDAE (Nomad bees, Flower bees, etc.). Nomada fabriciana (Linnaeus) - a common cleptoparasite of Andrena bicolor and A. chrysosceles. 28.5.85. ^{new line}

APIDAE (Bumblebees and Cuckoo Bumblebees). The listed species are all common. Psithyrus are social parasites of Bombus and lack a worker-caste. Their host species are given in brackets.

Bombus lucorum (Linnaeus) - 17.6.90, 8.7.90, 15.7.90, 29.7.90.

B. terrestris (Linnaeus) - 17.6.90, 8.7.90, 15.7.90, 29.7.90, 12.8.90.

B. lapidarius (Linnaeus) - 17.6.90, 8.7.90, 15.7.90, 29.7.90, 12.8.90.

B. pratorum (Linnaeus) - 13.5.90, 17.6.90, 15.7.90.

B. hortorum (Linnaeus) - 13.5.90, 8.7.90.

B. pascuorum (Scopoli) - 13.5.90, 28.5.90, 17.6.90, 8.7.90, 15.7.90, 29.7.90, 12.8.90.

Psithyrus barbutellus (Kirby) - 8.7.90, 29.7.90 (B. hortorum).

P. vestalis (Geoffroy in Fourcroy) - 17.6.90, 8.7.90, 15.7.90, 29.7.90 (B. terrestris). ^{mm}

SYMPHYTA (Sawflies)

The foodplants of the phytophagous larvae, where known, are listed after each species.

CEPHIDAE

Cephus pygmaeus (Linnaeus) - 28.5.90, 2.6.90 (various grasses).

Calameuta filiformis (Eversmann) - 28.5.90, 2.6.90 (grasses inc. Calamagrostis).

C. pallipes (Klug) - 28.5.90.

ARGIDAE

Arge cyanocrocea (Forster) - 28.5.90 (Rubus).

A. ustulata (Linnaeus) - 8.7.90 (Salix, Betula and Crataegus).

TENTHREDINIDAE

Strombocerus delicatulus (Fallen) - 8.7.90 (ferns).

Birka cinereipes (Klug) - 28.5.90 (Myosotis scorpioides).

Selandria serva (Fabricius) - 28.5.90, 29.7.90, 12.8.90 (various sedges, rushes and grasses).
Dolerus ferrugatus Lepeletier - 28.5.90, 2.6.90, 17.6.90 (Juncus).
D. haematodes Schrank - 2.6.90 (Carex, Scirpus and grasses).
D. nigratus (Muller) - 28.5.90, 2.6.90, 17.6.90 (grasses).
Heterarthrus nemoratus (Fallen) - 2.6.90 (Betula).
Athalia cordata Lepeletier - 12.8.90 (Ajuga reptans, Antirrhinum and Plantago).
A. lugens (Klug) - 13.5.90 (possibly crucifers).
Monostegia abdominalis (Fabricius) - 17.6.90 (Lysimachia and Anagallis).
Monosoma pulverata (Retzius in Degeer) - 22.4.90 (Alnus and Salix).
Empria baltica Conde - 13.5.90 (Filipendula).
E. liturata (Gmelin in Linnaeus) - 28.5.90 (Fragaria and Geum).
Ametastegia albipes (Thomson) - 29.7.90 (prob. Populus tremula).
A. glabrata (Fallen) - 13.5.90, 17.6.90 (normally Chenopodium, Polygonum and Rumex).
Caliroa annulipes (Klug) - 17.6.90 (various trees and shrubs).
Eutomostethus ephippium (Panzer) - 29.7.90 (various grasses).
E. luteiventris (Klug) - 13.5.90, 28.5.90 (Juncus effusus).
Stethomostus fuliginosus (Schrank) - 17.6.90 (Ranunculus scleratus).
Monophadnus pallescens (Gmelin in Linnaeus) - 2.6.90 (Ranunculus acris and R. repens).
Claremontia tenuicornis (Klug) - 28.5.85 (Filipendula).
Aglaostigma fulvipes (Scopoli) - 28.5.85, 13.5.90 (Galium spp.).
Tenthredopsis nassata (Linnaeus) - 17.6.90, 8.7.90 (various grasses).
Tenthredo celtica Benson - 13.5.90.
Pachyprotasis rapae (Linnaeus) - 13.5.90 (polyphagous).
Macrophya duodecimpunctata (Linnaeus) - 28.5.90, 17.6.90 (sedges).
Cladius pectinicornis (Geoffroy in Fourcroy) - 12.8.90 (Rosa and Fragaria).
Pristiphora fulvipes (Fallen) - 28.5.90 (Salix).
P. punctifrons (Thomson) - 28.5.90 (Rosa).
Nematus bergmanni Dahlbom - 28.5.90 (Salix).
N. coeruleocarpus Hartig - 22.4.90 (usually Salix and Populus).
N. myosotidis (Fabricius) - 22.4.90, 29.7.90 (Onobrychis and Trifolium).
N. nigricornis Lepeletier - 22.4.90 (Populus and Salix).
Pachynematus kirbyi (Dahlbom) - 28.5.90, 2.6.90, 17.6.90 (Carex).
P. rumicis (Linnaeus) - 13.5.90 (Rumex).
P. vagus (Fabricius) - 28.5.90 (Carex or Salix).

A historical review of scarce aculeates previously recorded at the Fen

To the authors knowledge,

1. Woodwalton Fen has received comparatively little aculeate recording compared to Wicken Fen, and hardly anything has been published on its aculeates since Spooner (1935) provided an account of species captured by N.C. Rothschild between 1921 and 1923. Most of these records are supported by specimens located in the collections of the Natural History Museum, London. Further information for the Fen is present in the Victoria County History (Omer-Cooper, 1926), though I am unclear where supporting material might lie, as some of these records require confirmation. It is also unclear whether these VCH records refer to the fen itself or the surrounding areas off the peat (a very important distinction). The abbreviations used in the following list are NHM (Natural History Museum - specimens therein) and VCH (Victoria County History).

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- Mutilla europaea Linnaeus (Mutillidae) - recorded variously by Rothschild (Spooner, 1935; NHM), the VCH, and by B.M. Classey in 1948 (NHM).
- Anoplius caviventris (Aurivillius) (Pompilidae) - recorded by Rothschild (Spooner, 1935; NHM).
- Priocnemis agilis (Schuckard) (Pompilidae) - recorded by Rothschild (Spooner, 1935; NHM).
- Crossocerus vagabundus (Panzer) (Sphecidae) - recorded by Rothschild (Spooner, 1935; NHM).
- Ectemnius rubicola (Dufour & Perris) (Sphecidae) - recorded by Rothschild (Spooner, 1935; NHM).
- Hylaeus pectoralis Forster (Colletidae) - recorded by Rothschild (Spooner, 1935) and listed in the VCH.
- Andrena labialis (Kirby) (Andrenidae) - listed in the VCH only.
- A. nigriceps (Kirby) - recorded by Rothschild (Spooner, 1935; NHM).
- Lasioglossum xanthopum (Kirby) (Halictidae) - listed in the VCH only.
- Macropis europaea Warncke (Melittidae) - recorded variously by Rothschild (Spooner, 1935; NHM), the VCH, and a number of modern entomologists (mostly non-hymenopterists).
- Osmia pilicornis Smith (Megachilidae) - recorded by Rothschild (Spooner, 1935; NHM).
- Stelis phaeoptera (Kirby) (Megachilidae) - recorded by Rothschild (Spooner, 1935; NHM).
- Bombus distinguendus Morawitz (Apidae) - recorded by Rothschild (NHM, but not listed in Spooner, 1935).
- B. subterraneus (Linnaeus) - recorded by Rothschild (NHM, but not listed in Spooner, 1935) and VCH.
- B. sylvarum (Linnaeus) - listed in the VCH only.

Discussion of the aculeate fauna

Two scarce species, Hylaeus pectoralis and Macropis europaea, which are historically known from the Fen, are confirmed as still present. These are both wetland specialists dependent upon the reedbeds and mixed fen. Two further scarcities are apparently recorded in Huntingdonshire for the first time within this paper, these being the dead wood-nesting Crossocerus binotatus and the wetland specialist Passaloecus clypealis. Both are found under similar circumstances at Wicken Fen. The failure of Rothschild to record the former is slightly intriguing, though the latter species is small and easily overlooked.

Of the remaining scarce species listed by Spooner (1935) and Omer-Cooper (1926), it is almost certain that several are now extinct at the site. Indeed some have shown very severe national declines. Examples include Crossocerus vagabundus which has not been recorded in Britain since 1952 (for map see Falk, 1990), Stelis phaeoptera which is only recently recorded from Devon and Oxfordshire (for map see Falk, 1990), Bombus subterraneus which has retreated to the extreme south-east of England (for map see IBRA, 1980), and B. distinguendus which in contrast has largely retreated to the extreme north of Britain (for map see IBRA, 1980).

Other species such as Mutilla europaea, Anoplius caviventris, Priocnemis agilis and Osmia pilicornis are conceivably still present but too elusive or highly localised for my detection. The past occurrence of M. europaea (the Large Velvet ant) here is particularly noteworthy. I know of no other similar site for this essentially heathland and moorland species, and it has never been found at Wicken. It is a brood parasite of bumblebees and it is unclear whether the impoverishment of the Bombus fauna at the Fen might have led to its demise too.

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References

Falk, S.J. (1990). Provisional Maps of some declined aculeates. Bees, Wasps and Ants Recording Scheme Newsletter, Spring 1990 : 3-4, 8-9.

Falk, S.J. (In press). The National Review of Scarce and Threatened Bees, Wasps and Ants. Research and Survey. NCC, Peterborough.

I.B.R.A. (1980). Atlas of the Bumblebees of the British Isles. ITE, Cambridge.

Omer-Cooper, J. (1926). Hymenoptera Aculeata. In: Vic. Hist. Huntingdonshire, 1 : 94-95

Spooner, G.M. (1935). Aculeate Hymenoptera from Northants. and Wood Walton Fen, Hunts. Entomologist's Mon. Mag., 71 : 138-141

Steven Falk, Herbert Art Gallery and Museum, Jordan Well, Coventry CV1 5QP