

Other Insect Groups at Keele University

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Caddisflies – Trichoptera



The short list incorporates records made by Jerry Harrison and Mollie Badcock 1969-82. Occasionally caddis turn up in the moth trap (indicated by an * and recorded 2014-16 by the author), sometimes in large numbers.

Rhyacophilidae

Rhyacophila dorsalis Curtis

Glossomatidae

Agapetus fuscipes Curtis

Agapetus ochripes Curtis *

Hydropsychidae

Hydropsyche angustipennis Curtis

Hydropsyche instabilis Curtis

Phryganeidae

Agrypnia pagetana Curtis

Agrypnia varia Fabricius *

Phryganea bipunctata Retzius

Phryganea grandis Linnaeus *

Brachycentridae

Brachycentrus subnubilus Curtis

Goeridae

Goera pilosa Fabricius

Limnephilidae

Anabolia nervosa Curtis

Chaetopteryx villosa Fabricius

Drusus annulatus Stephens

Glyphotaelius pellucidus Retzius

Halesus radiatus Curtis *

Limnephilus auricula Curtis

Limnephilus extricatus Curtis

Limnephilus flavicornis Fabricius

Limnephilus griseus Linnaeus *

Limnephilus lunatus Curtis *

Limnephilus marmoratus Curtis *

Limnephilus rhombicus Linnaeus *

Limnephilus sparsus Curtis *

Limnephilus stigma Curtis

Limnephilus vittatus Fabricius

Micropterna lateralis Stephens

Micropterna sequax McLachlan

Potamophylax cingulatus Stephens *

Potamophylax latipennis Curtis

Stenophylax permistus McLachlan *

Sericostomatidae

Sericostoma personatum Spence

Beraeidae

Beraeodes minutus Linnaeus

Molannidae

Molanna angustata Curtis

Leptoceridae

Athripsodes aterrimus Stephens

Mystacides azurea Linnaeus

Lacewings – Neuroptera

Little work has been done on these fascinating insects. With their complex wing venation they are not the easiest creatures to identify but there are up-to-date keys to aid this. Many people will be familiar with the green *Chrysoperla carnea* that overwinters, sometimes in houses, but there are many more, less conspicuous species.

Hemerobiidae

Hemerobius atrifrons McLachlan
Hemerobius humulinus Linnaeus
Hemerobius lutescens Fabricius
Hemerobius micans Olivier
Hemerobius nitidulus Fabricius
Micromus paganus Linnaeus
Micromus variegatus Fabricius
Symphorobius pygmaeus Rambur
Wesmaelius nervosus Fabricius
Wesmaelius quadrifasciatus Reuter

Chrysopidae

Chrysoperla carnea Stephens
Chrysopa commata Kis & Ujhelyi
Chrysopa perla Linnaeus
Cunctochrysa albolineata Killington
Nineta flava Scopoli
Nineta vittata Wesmaelius
Dichochrysa ventralis Curtis
Nothochrysa capitata Fabricius

Alderflies - Megaloptera



Just one very common species (pictured) recorded at Keele; *Sialis lutaria* L. It is often seen sitting on vegetation by the sides of lakes and streams.

Scorpionflies – Mecoptera



The males, with their scorpion-like tails, can be alarming insects, but they are completely harmless – unless you are another insect! There are only four species and we have two of them at Keele. They

are very common and can often be seen sitting on leaves waiting for a passing "meal". The difference between them is slight.

Panorpis communis Linnaeus and *Panorpis germanica* Linnaeus

Stoneflies – Plecoptera

Very little has been done on these obscure insects. Just two species have been noted:

Amphinemura sulcicollis Stephens and *Nemoura cinerea* Retzius.

Mayflies – Ephemeroptera



Although more associated with clear flowing streams and rivers there are a couple of small species that can be found in small streams and lakes. We have recorded one so far at Keele (photo above) – *Cloeon dipterum* Linnaeus – and that occasionally turns up in the moth trap.

Grasshoppers & Crickets – Orthoptera



Everyone knows the grasshoppers from their "chirruping" and we have recorded three species. We also have two species of cricket; both spreading across the county. They need sunny, grassy places so lower Clock House Drive and the Solar Farm are good places to look and the Walled Garden too.

Common Green Grasshopper *Omnocestus viridulus*

Lesser Marsh Grasshopper *Chorthippus albomarginatus* : first found in 2023 on the Solar Farm.

Field Grasshopper *Chorthippus brunneus*

Long-winged Cone-head Cricket *Conocephalus fuscus* : first found in 2023 on the Solar Farm.

Roesel's Bush Cricket *Metrioptera roeselii* : first found in 2023 on the Solar Farm.

True Bugs - Hemiptera



Little work has been done on these. However recent works on the identification of the shield bugs may improve sightings of those. Occasionally they turn up in the moth trap.

HEMIPTERA (HETEROPTERA)

Acanthosomatidae – Shieldbugs

Acanthosoma haemorroidale Hawthorn Shieldbug
Elasmostethus interstinctus L. Birch Shieldbug

Pentatomidae – Shieldbugs

Pentatoma rufipes L. Red-legged Shieldbug

Anthocoridae – Flowerbugs

Anthocoris nemorum L. Common Flowerbug

Gerridae – Pond Skaters

Gerris lacustris L. Common Pond Skater

Miridae – Capsid Bugs

Calocoris sexguttata F.

Dryophilocoris flavoquadrimaculata DeG.

Heterotoma merioptera Scop.

Liocoris tripustulatus F.

Lygus rugulipennis Popp.

Stenodema laevigatum L.

Saldidae – Shore Bugs

Saldula orthochila Fieb.

HETEROPTERA (HOMOPTERA)

Cixiidae - Planthoppers

Cixius nervosus L.

Cercopidae - Froghoppers

Cercopis vulnerata L. Red and Black Froghopper

Bees, Wasps and Ants – Hymenoptera



For such a large order of insects we have very few records but they are complex insects to identify in many cases. A recent surge in interest in bumblebees and a parallel increase in identification literature, websites and societies linked to them should hopefully increase our records at Keele.

HYMENOPTERA APOCRITA (Aculeata)

Eumenidae – Potter Wasps

Ancistrocerus gazella Pz.

Formicidae - Ants

Formica fusca L.

Sphecidae - Solitary Wasps

Rhopalum coarctatum Scop.

Vespidae - Social Wasps

Dolichovespula sylvestris Scop. Tree Wasp

Paravespula vulgaris L. Common Wasp

Vespula rufa L. Red Wasp

Vespa crabro L. Hornet

Apidae – Social Bees

Apis mellifera L. Honeybee

Bombus hortorum L. Garden Bumblebee

Bombus hypnorum Tree Bumblebee

Bombus lapidarius L. Red-tailed Bumblebee

Bombus pascuorum L. Common Carder Bee

Bombus pratorum L. Early Bumblebee

Bombus terrestris L. Buff-tailed Bumblebee

Anthidium manicatum L. Wool Carder Bee

HYMENOPTERA APOCRITA (Parasitica)

Cynipidae – Gall Wasps

Andricus foecundatrix Hartig Artichoke Gall

Andricus kollari Hartig Marble Gall

Andricus quercuscalicis Burg. Knopper Gall

Biorhiza pallida Ol. Oak Apple Gall

Cynips divisa Hartig Pea Gall

Cynips quercusfolii L. Cherry Gall

Neuroterus numismalis Geoff. Silk Button Gall

Neuroterus quercusbaccarum L. Spangle Gall

Ichneumonidae

Rhyssa persuasoria L. Giant Ichneumon

HYMENOPTERA (SYMPHYTA) - Sawflies

Argidae

Arge nigripes Retz.

Pamphiliidae

Pamphilius hortorum Klug

Tenthredinidae

Apethymus abdominalis Lep.

Dolerus puncticollis Forst.

Strongylogaster lineata Ch.

Tenthredo arcuata Forst.

Tenthredo colon Klug