

# Hymenoptera: Aculeata Part 2 – Wasps

**A. NUMBER OF SPECIES IN UK:** 318

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**B. NUMBER OF SPECIES IN SCOTLAND:** 133 (3 thought to be extinct in Scotland, 16 may be found – insufficient data)

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**C. EXPERT CONTACTS**

Please contact [scotland@buglife.org.uk](mailto:scotland@buglife.org.uk) for details.

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**D. SPECIES OF CONSERVATION CONCERN**

Listed species

UK Biodiversity Action Plan Species known to occur in Scotland (the current list was published in August 2007):

*Chrysura hirsuta*

Other species

The Scottish Biodiversity List was published in 2005 and lists the following species:

*Chrysura hirsute*  
*Ammophila sabulosa*  
*Ancistrocerus parietum*  
*Anoplius concinnus*  
*Astata pinguis*  
*Ceropales maculata*  
*Crabro peltarius*  
*Crossocerus megacephalus*  
*Crossocerus quadrimaculatus*  
*Diodontus tristis*

*Dipogon subintermedius*  
*Dipogon variegatus*  
*Ectemnius cephalotes*  
*Ectemnius continuus*  
*Embolemus ruddii*  
*Evagetes crassicornis*  
*Gorytes tumidus*  
*Hedychridium ardens*  
*Lindenius albilabris*  
*Omalus auratus*  
*Oxybelus uniglumis*  
*Pompilus cinereus*  
*Priocnemis schioedtei*  
*Psen dahlbomi*  
*Sphecodes gibbus*  
*Stelis punctulatissima*  
*Symmorphus mutinensis*  
*Tachysphex pompiliformis*

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## **E. LIST OF SPECIES KNOWN FROM SCOTLAND**

(\* indicates species that are restricted to Scotland in UK context)

### **Bethylidae**

*Bethylus cephalotes*  
*Bethylus fuscicornis*  
*Cephalonomia formiciformis*  
[*Cephalonomia gallicola* – may be found, insufficient data]  
[*Cephalonomia hammi* – may be found, insufficient data]  
[*Cephalonomia tarsalis* – may be found, insufficient data]  
[*Cephalonomia waterstoni* – may be found, insufficient data]  
[*Epyris tricolor* – may be found, insufficient data]  
[*Laelius microneurus* – may be found, insufficient data]  
[*Plastanoxus chittendenii* – may be found, insufficient data]  
[*Plastanoxus munroi* – may be found, insufficient data]  
[*Plastanoxus westwoodii* – may be found, insufficient data]  
[*Pristocera depressa* – may be found, insufficient data]

### **Chrysididae**

*Chrysis angustula*  
*Chrysis ignita s.l.*  
*Chrysis ignita s.s.*  
*Chrysis impressa*  
*Chrysis ruddii*  
*Chrysis rutiliventris*  
*Chrysura hirsuta\**

*Hedychridium ardens*  
*Hedychridium cupreum*  
*Omalus puncticollis*  
*Pseudomalus auratus*  
*Trichrysis cyanea*

### **Crabronidae**

*Argogorytes mystaceus*  
*Crabro cribrarius*  
*Crabro peltarius*  
*Crossocerus annulipes*  
*Crossocerus binotatus*  
*Crossocerus capitosus*  
*Crossocerus dimidiatus*  
*Crossocerus elongatulus*  
*Crossocerus leucostomus*  
*Crossocerus megacephalus*  
*Crossocerus ovalis*  
[*Crossocerus podagricus* – records queried]  
*Crossocerus pusillus*  
*Crossocerus quadrimaculatus*  
*Crossocerus styrius*  
*Crossocerus tarsatus*  
*Crossocerus walkeri*  
*Crossocerus wesmaeli*  
*Diodontus tristis*  
*Dryudella pinguis*  
*Ectemnius cavifrons*  
*Ectemnius cephalotes*  
*Ectemnius continuus*  
*Ectemnius lapidarius*  
*Ectemnius ruficornis*  
*Ectemnius sexcinctus*  
*Harpactus tumidus*  
*Lindenius albilabris*  
*Mellinus arvensis*  
*Mimesa equestris*  
*Mimumesa dahlbomi*  
[*Mimumesa unicolor* – records queried]  
*Nysson spinosus*  
[*Oxybelus mandibularis* – thought to be extinct in Scotland]  
*Oxybelus uniglumis*  
*Passaloecus corniger*  
*Passaloecus monilicornis*  
*Pemphredon inornata*  
*Pemphredon lethifera*  
*Pemphredon lugubris*  
[*Pemphredon mortifer* – may be found, insufficient data]  
[*Pemphredon wesmaeli* – may be found, insufficient data]  
[*Psenulus pallipes* – records queried]  
*Rhopalum clavipes*

*Rhopalum coarctatum*  
*Spilomena curruca*  
*Spilomena troglodytes*  
*Tachysphex pompiliformis*  
*Trypoxylon attenuatum*  
*Trypoxylon figulus s.l.*  
[*Trypoxylon figulus s.s.* – records queried]  
*Trypoxylon medium*

#### **Dryinidae**

*Anteon arcuatum*  
*Anteon brachycerum*  
*Anteon ephippiger*  
[*Anteon faciale* – may be found, insufficient data]  
*Anteon flavicorne*  
*Anteon fulviventre*  
*Anteon gaullei*  
*Anteon infectum*  
*Anteon jurineanum*  
*Anteon pubicorne*  
*Anteon tripartitum*  
[*Aphelopus atratus* – records queried]  
*Aphelopus melaleucus*  
*Aphelopus nigriceps*  
[*Aphelopus querceus* – may be found, insufficient data]  
*Aphelopus serratus*  
*Gonatopus clavipes*  
[*Gonatopus helleni* – may be found, insufficient data]  
*Lonchodryinus ruficornis*

#### **Embolemidae**

*Embolemus ruddii*

#### **Mutillidae**

*Mutilla europaea*

#### **Pompilidae**

*Anoplius concinnus*  
*Anoplius nigerrimus*  
*Arachnospila anceps*  
*Arachnospila spissa*  
*Ceropales maculata*  
*Dipogon subintermedius*  
*Dipogon variegatus*  
[*Episyron gallicus* – may be found, insufficient data]  
*Evagetes crassicornis*  
*Pompilus cinereus*  
*Priocnemis exaltata*  
*Priocnemis parvula*  
*Priocnemis perturbator*  
*Priocnemis schioedtei*

## Sphecidae

*Ammophila sabulosa*

## Tiphiidae

*Tiphia minuta*

## Vespidae

[*Ancistrocerus antilope* – thought to be extinct in Scotland]

*Ancistrocerus gazella*

*Ancistrocerus nigricornis*

*Ancistrocerus oviventris*

*Ancistrocerus parietinus*

*Ancistrocerus parietum*

*Ancistrocerus scoticus*

*Ancistrocerus trifasciatus*

*Dolichovespula media*

*Dolichovespula norvegica*

*Dolichovespula sylvestris*

[*Odynerus spinipes* – thought to be extinct in Scotland]

[*Polistes dominulus* – adventive, not established]

[*Polistes jadwigae* – adventive, not established]

*Symmorphus bifasciatus*

*Vespula austriaca*

*Vespula germanica*

*Vespula rufa*

*Vespula vulgaris*

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## F. DISTRIBUTION DATA

- i) Validated data collated by the Bees, Wasps and Ants Recording Society (BWARS) is available on the NBN Gateway.
- ii) Validated data collated by the Highland Biological Recording Group (HBRG) is available on the NBN Gateway.
- iii) Other datasets are available on the NBN and from Local Records Centres. However, useful as they are, these datasets are likely to contain errors and their validity cannot be guaranteed by the BWARS.
- iv) A number of parts comprising the Provisional Atlas of the aculeate Hymenoptera of Britain and Ireland have been produced (BWARS Society and Biological Records Centre, NERC Centre for Ecology and Hydrology).
- v) The BWARS, started in 1978, reports items of interest through a twice annual newsletter.

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## G. IDENTIFICATION GUIDES

- i) Perkins, J.F. 1976. *Hymenoptera Bethyloidea (excl. Chrysididae). Handbooks for the Identification of British Insects 6/3a*. Royal Entomological Society.

- ii) Morgan, D. 1984. *Cuckoo-Wasps: Hymenoptera, Chrysididae. Handbooks for the Identification of British Insects 6/5*. Royal Entomological Society.  
[Particularly helpful when used in conjunction with the following notes available from BWARS website:
- Archer, M. Notes: [http://www.bwars.com/Resources.htm#The Chrysis files](http://www.bwars.com/Resources.htm#The_Chrysis_files)
  - Photos of thoraxes of the four UK Hedychridium species:  
<http://www.bwars.com/Resources.htm#Hedychridiumsculpt>
- iii) Day, M.C. 1988. *Spider-Wasps – Hymenoptera: Pompilidae*. Royal Entomological Society of London.
- iv) Wisniowski, B. 2009. *Spider-hunting Wasps of Poland*. Ocjow National Park. [Covers all the British Pompilidae species except for *Aporus unicolor*.]
- v) Richards, O.W. 1980. *Scolioidea, Vespoidea and Sphecidae. Handbooks for the Identification of British Insects Volume VI Part 3(b)*. Royal Entomological Society of London. [Some nomenclature has changed since publication, but still an important key to British aculeate wasps.]
- vi) Archer, M.A. 2003. *The British Potter and Mason Wasps – A Handbook*. BWARS. [Key, distribution maps and profiles of all British Eumeninae.]
- vii) Yeo, P.F. and Corbet, S.A. 1995. *Solitary Wasps. Naturalists Handbook 3*. Richmond Publishing Co. Ltd.
- viii) Bitsch, J. 1993, 1997, 2001 and forthcoming. *Hymenopteres Specidae d'Europe occidentale. Volumes 1-4*. Faune de France. [Text in French.]
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## H. OTHER INFORMATION

- a) The species list in this document was produced with reference to the *Scottish Aculeate List* by Murdo Macdonald. The authors wish to thank Murdo Macdonald for the kind provision of these data. This list is available from Highland Biological Recording Group (HBRG) at: <http://www.hbrg.org.uk/SAL/index.html>
- b) More information about wasps and their conservation can be found at the websites of Hymettus Ltd and Buglife:
- [www.hymettus.org.uk](http://www.hymettus.org.uk)
  - [www.buglife.org.uk](http://www.buglife.org.uk)
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This document provides information on species known to occur in Scotland at the time of publication. This document does not provide a definitive list of species occurring in Scotland. The list of species known to occur in Scotland may change as further information is gathered.

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