

Hymenoptera: Aculeata Part 3 – Ants

A. **NUMBER OF SPECIES IN UK:** 87

B. **NUMBER OF SPECIES IN SCOTLAND:** 41 (11 introduced [6 possible, 5 definite], 1 thought be extinct, 3 may be found – insufficient data)

C. **EXPERT CONTACTS**

Please contact scotland@buglife.org.uk for details.

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):

Formica exsecta
Formica nitidulus

Other species

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

Formica aquilonia
Formica exsecta
Formica fusca
Formica lugubris
Formicoxenus nitidulus
Mutilla europaea

E. LIST OF SPECIES KNOWN FROM SCOTLAND

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

Formicidae

[*Crematogaster scutellaris* – introduced ‘tramp’ ant, may occur, insufficient data]

Formica aquilonia

Formica exsecta

Formica fusca

Formica lemani

Formica lugubris

Formica sanguinea

Formicoxenus nitidulus

[*Hypoponera punctatissima* – introduced ‘tramp’ ant]

Lasius alienus s.l.

Lasius alienus s.s.

[*Lasius emarginatus* – adventives, not established]

Lasius flavus

[*Lasius fuliginosus* – thought to be extinct in Scotland]

Lasius mixtus

Lasius niger s.l.

Lasius niger s.s.

Lasius platythorax

Lasius psammophilus

[*Lasius sabularum* – may occur, insufficient data]

Lasius umbratus

Leptothorax acervorum

[*Linepithema humile* – introduced ‘tramp’ ant]

[*Monomorium floricola* – introduced ‘tramp’ ant, may occur, insufficient data]

[*Monomorium pharaonis* – introduced ‘tramp’ ant]

Myrmica lobicornis

Myrmica lonae

[*Myrmica microrubra* – may occur, insufficient data]

Myrmica rubra

Myrmica ruginodis

Myrmica sabuleti

Myrmica scabrinodis

Myrmica sulcinodis

[*Paratrechina longicornis* – introduced ‘tramp’ ant, may occur, insufficient data]

[*Pheidole megacephala* – introduced ‘tramp’ ant, may occur, insufficient data]

[*Plagiolepis exigua* – may occur, insufficient data]

[*Technomyrmex pallipes* – introduced ‘tramp’ ant]

[*Technomyrmex vitiensis* – introduced ‘tramp’ ant]

[*Tetramorium bicarinatum* – introduced ‘tramp’ ant]

Tetramorium caespitum

[*Tetramorium simillimum* – introduced ‘tramp’ ant, may occur, insufficient data]

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.

G. IDENTIFICATION GUIDES

- i) Skinner, G.J. and Allen, G.W. 1996. *Ants. Naturalists Handbooks 24*. Richmond Publishing Co. Ltd.
- ii) Bolton, B. and Collingwood. 1975. *Hymenoptera Formicidae. Handbooks for the Identification of British Insects 6.3c*. Royal Entomological Society.
- iii) Czechowski, W., Radchenko, A. and Czechowska, W. 2002. *The Ants (Hymenoptera, Formicidae) of Poland*. MIZ. [Useful guide in English, but does not include keys to male *Lasius* spp.]

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 ants and their conservation can be found at the websites of Hymettus Ltd and Buglife:
 - www.hymettus.org.uk
 - www.buglife.org.uk

This document should be referenced as:

Cathrine, C., Harrison, M. and Macadam, C. 2010. *Scottish Invertebrate Species Knowledge Dossier: Hymenoptera: Aculeata Part 2 – Ants*. Buglife – The Invertebrate Conservation Trust.

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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