

Collembola (Springtails)

A. NUMBER OF SPECIES IN UK: 261

B. NUMBER OF SPECIES IN SCOTLAND: c. 240 (including at least 1 introduced)

C. EXPERT CONTACTS

Please contact scotland@buglife.org.uk or p.shaw@roehampton.ac.uk for details.

D. SPECIES OF CONSERVATION CONCERN

Listed species

None – insufficient data.

Other species

No species are known to be of conservation concern based upon the limited information available. Conservation status will be more thoroughly assessed as more information is gathered.

E. LIST OF SPECIES KNOWN FROM SCOTLAND

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

PODUROMORPHA

Hypogastruroidea

Hypogastruidae

Ceratophysella armata

Ceratophysella bengtssoni

Ceratophysella denticulata

Ceratophysella engadinensis

Ceratophysella gibbosa

Ceratophysella granulata
Ceratophysella longispina
Ceratophysella scotica
Ceratophysella sigillata
Hypogastrura burkilli
Hypogastrura litoralis
Hypogastrura manubrialis
*Hypogastrura packardi** (Only one UK record.)
Hypogastrura purpurescens (Very common.)
Hypogastrura sahlbergi
Hypogastrura socialis
Hypogastrura tullbergi
Hypogastrura viatica
Mesogastrura libyca (Introduced.)
Schaefferia emucronata 'group'
Schaefferia longispina
Schaefferia pouadensis
Schoettella ununguiculata
Willemia anophthalma
Willemia denisi
Willemia intermedia
Xenylla boernerii
Xenylla brevicauda
Xenylla grisea
Xenylla humicola
Xenylla longispina
Xenylla maritima (Very common.)
Xenylla tullbergi

Neanuroidea

Brachystomellidae

Brachystomella parvula

Frieseinae

Friesea claviseta
Friesea mirabilis (Very common.)
Friesea truncata

Neanurinae

Monobella grassei
Neanura muscorum (Very common.)

Pseudachoratinae

Anurida denisi
Anurida ellipsoides
Anurida granaria
Anurida maritima
Anurida thalassophila
Anurida tullbergi
Anuridella immsiana

Anuridella marina
Anuridella submarina
Micranurida forsslundi
Micranurida pygmaea
Micranurida sensillata
Pseudachorutella asigillata
Pseudachorutes parvulus

Odontellidae

Xenyllodes armatus

Onychiuroidea

Onychiuridae

Kalaphorura bearei
Kalaphorura burmeisteri (Probably widespread.)
Micraphorura absoloni
Oligaphorura schoetti (Caves.)

Species below are included within the Onychiuridae but are taxonomically uncertain. DNA analysis and detailed collections are required to resolve relationships.

Allonychiurus edinensis
Deuteraphorura inermis
Deuteraphorura scotaria
Onychiurus ambulans
Onychiurus rectospinatus
Onychiurus subamblans
Orthonychiurus stachianus
Protaphorura alborufescens
Protaphorura armata
Protaphorura aurantiaca
Protaphorura bagnalli
Protaphorura caledonica
Protaphorura octopunctata
Protaphorura procampatus
Protaphorura stachi
Protaphorura subuliginata
Protaphorura tullbergi
Supraphorura furcifera
Thalassaphorura debilis
Thalassaphorura evansi
Thalassaphorura halophila

Tullbergiidae

Species listed below in Tullbergiidae are more taxonomically reliable than those highlighted in Onychiuridae, but still uncertain, and more work is required to resolve relationships.

Mesaphorura atlantica

Mesaphorura iowensis
Mesaphorura krausbaueri
Mesaphorura macrochaeta
Mesaphorura tenuisensillata
Metaphorura affinis
Neotullbergia crassicuspis
Neotullbergia ramicuspis
Neotullbergia tricuspis
Paratullbergia callipygos
Paratullbergia macdougalli
Stenaphorura denisi
Stenaphorura lubbocki
Stenaphorura quadrispina

Poduridae

Podura aquatica (Ponds.)

ENTOMOBRYOMORPHA

Entomobryoidea

Cyphoderidae

Cyphoderus albinus (Ant nests.)

Entomobryidae

Entomobryinae

Entomobrya albocincta (Very common.)
E. intermedia
Entomobrya lanuginosa
Entomobrya marginata
Entomobrya multifasciata (Very common.)
Entomobrya muscorum (Probably is *E. nivalis* / *intermedia*)
Entomobrya nicoleti (Very common.)
Entomobrya nivalis (Very common.)
Mesentoma dollfusi
Sinella humicola
Sinella pulcherrima
Willowsia buski

Lepidocyrtinae

Lepidocyrtus curvicollis
Lepidocyrtus cyaneus (Very common.)
Lepidocyrtus lanuginosus (Very common.)
Lepidocyrtus lignorum
Lepidocyrtus paradoxus
Lepidocyrtus ruber
Lepidocyrtus violaceus
Pseudosinella alba (Very common.)
Pseudosinella decipiens
Pseudosinella fallax

Pseudosinella immaculata
Pseudosinella maritima
Pseudosinella octopunctata
Pseudosinella subvirei
Seira domestica
Heteromurus nitidus
Orchesella alticola (Mountains only.)
Orchesella cincta (Very common.)
Orchesella villosa (Very common.)

Tomoceroidea

Oncopodura crassicornis
Oncopodura crassicornis
Pogonognathellus longicornis (Very common.)
Tomocerus flavescens
Tomocerus minor (Very common.)
Tomocerus vulgaris (Very common.)
Anurophorus laricis
Archisotoma besselsi
Archisotoma megalops
Ballistura borealis
Ballistura schoetti
Cryptopygus bipunctatus
Cryptopygus garretti
Cryptopygus scapelliferus
Cryptopygus sphagneticolus
Cryptopygus thermophilus
Folsomia agrelli
Folsomia bisetosa
Folsomia brevicauda
Folsomia brevifurca
Folsomia candida
Folsomia fimetaria
Folsomia fimetarioides
Folsomia inoculata (Likely that this is under-recorded or increasing.)
Folsomia litsteri
Folsomia manolachei
Folsomia monophthalma
Folsomia penicula
Folsomia quadrioculata (Very common but confused with *F. manolachei*.)
Folsomia sexoculata
Folsomia similis
Folsomia spinosa
Folsomia thalassophila
Isotomiella minor (Very common.)
Isotomiella paraminor
Isotomodes bisetosus
Isotomodes productus
Isotomodes templetoni
Proisotoma admaritima
Proisotoma buddenbrocki

Proisotoma minima
Proisotoma minuta (Very common.)
Proisotoma vestita
Pseudanurophorus binoculatus
Pseudisotoma monochaeta
Pseudisotoma sensibilis (Very common.)
Tetracanthella brachyura
Tetracanthella arctica
Tetracanthella wahlgreni (Common on high cold acid peaty sites.)
Uzelia setifera
Agrenia bidenticulata
Axelsonia littoralis
Desoria nivalis
Desoria olivacea
Desoria tigrina
Desoria violacea
Halisotoma maritima
Halisotoma poseidonis
Isotoma anglicana
Isotoma viridis (Very common.)
Marisotoma tenuicornis
Isotomurus antennalis
Isotomurus alticolus
Isotomurus aquatilis
Isotomurus fucicolus
Isotomurus maculatus
Isotomurus palustris (Very common.)
Isotomurus plumosus
Isotomurus prasinus
Parisotoma notabilis (Very common.)
Vertagopus arboreus
Vertagopus cinereus
Vertagopus montanus
Pachyotoma crassicauda
Pachyotoma ultonica

NEELIPLEONA

Neelidae

Megalothorax minimus (Very common.)
Neelus murinus

SYMPHYPLEONA

Arrhopalitidae

Arrhopalites bifidus
Arrhopalites caecus
Arrhopalites principalis
Arrhopalites pygmaeus
Arrhopalites sericus

Bourletiellidae

Bourletiella arvalis
Bourletiella hortensis
*Bourletiella viridescens** (Only one UK record.)
Deuterosminthurus bicinctus
Deuterosminthurus pallipes
Deuterosminthurus sulphureus
Heterosminthurus bilineatus
Heterosminthurus insignis
Heterosminthurus novemlineatus

Dicyrtomidae

Dicyrtoma fusca
Dicyrtomina minuta (Very common.)
Dicyrtomina ornata (Very common.)
Dicyrtomina saundersi (Probably under-recorded.)

Katiannidae

Gisinianus flammeolus
Sminthurinus albifrons
Sminthurinus aureus (Very common.)
Sminthurinus bimaculatus
*Sminthurinus cingulatus** (Only one UK record.)
Sminthurinus elegans
Sminthurinus igniceps
Sminthurinus niger
Sminthurinus trinotatus

Sminthuridae

Allacma fusca
Lipothrix lubbocki
Sminthurus multipunctatus
Sminthurus nigromaculatus
Sminthurus viridis (Very common.)

Sminthurididae

Sminthurides aquaticus (Very common.)
Sminthurides malmgreni (Very common.)
Sminthurides parvulus
Sminthurides schoetti
Sminthurides signatus
Sphaeridia pumilis (Very common.)
Stenacidia violacea

F. DISTRIBUTION DATA

- i) Data collated by the Collembola Recording Scheme is available on the NBN Gateway.

- ii) Up-to-date species distribution maps based upon the Collembola Recording Scheme data are available from the UK Collembola Taxonomy and Ecology website hosted by Roehampton University's Centre for Research in Ecology maintained by Peter Shaw (<http://www.roehampton.ac.uk/collembola/index.html>).
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G. IDENTIFICATION GUIDES

- i) Hopkin, S.P. 2007. *A Key to the Collembola (Springtails) of Britain and Ireland*. Field Studies Council.
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H. OTHER INFORMATION

- a) There is an excellent online resource available at the UK Collembola Taxonomy and Ecology website hosted by Roehampton University's Centre for Research in Ecology maintained by Dr Peter Shaw (<http://www.roehampton.ac.uk/collembola/index.html>).
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This document should be referenced as:

Shaw, P. and Cathrine, C. 2010. *Scottish Invertebrate Species Knowledge Dossier: Collembola (Springtails)*. 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.

The information contained within this document was prepared by Dr Peter Shaw and Chris Cathrine. This species knowledge dossier was produced as part of the 'Action for Scottish Invertebrates' project. This project is grant-aided by Scottish Natural Heritage and delivered on behalf of the Initiative for Scottish Invertebrates (ISI) by Buglife – The Invertebrate Conservation Trust.



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