

Ephemeroptera (Mayflies)

A. NUMBER OF SPECIES IN UK: 51

B. NUMBER OF SPECIES IN SCOTLAND: 38

C. EXPERT CONTACTS

Please contact scotland@buglife.org.uk for details

D. SPECIES OF CONSERVATION CONCERN

Listed species

Kageronia fuscogrisea Nationally Notableⁱ

Locally distributed in Dumfries and Galloway. Also found in the Thames catchment and in Ireland, where it is much more common than on the mainland.

Baetis niger UKBAPⁱⁱ

A widespread species that has suffered huge declines in some parts of the UK. Status in Scotland is currently unknown.

Other species

Rhithrogena germanica

A scarce species restricted to major river systems including the Don, Dee, Deveron, Spey, Tay and Tweed.ⁱⁱⁱ

Ameletus inopinatus

Thought to be retreating to higher altitudes in response to warmer water temperatures.ⁱⁱⁱ

Siphonurus alternatus

Known from the River Tummel, Perthshire. Possibly under-recorded.ⁱⁱⁱ

Source: i) Bratton JH. 1990. A review of the scarcer Ephemeroptera and Plecoptera of Great Britain. Nature Conservancy Council, Peterborough, UK. Research & survey in Nature Conservation no. 29:1-39.

ii) <http://www.ukbap.org.uk/NewPriorityList.aspx>

iii) C. Macadam, pers. comm..

E. LIST OF SPECIES KNOWN FROM SCOTLAND

Ameletidae

Ameletus inopinatus

Baetidae

Baetis digitatus

Baetis fuscatus

Baetis muticus
Baetis niger
Baetis rhodani
Baetis scambus
Baetis vernus
Centroptilum luteolum
Cloeon dipterum
Cloeon simile
Procloeon bifidum
Procloeon pennulatum

Caenidae

Brachycercus harrisellus
Caenis horaria
Caenis luctuosa
Caenis macrura
Caenis robusta
Caenis rivulorum

Ephemerellidae

Ephemerella notata
Serratella ignita

Ephemeridae

Ephemera danica

Heptageniidae

Ecdyonurus dispar
Ecdyonurus insignis
Ecdyonurus torrentis
Ecdyonurus venosus
Electrogena lateralis
Heptagenia sulphurea
Kageronia fuscogrisea
Rhithrogena germanica
Rhithrogena semicolorata

Leptophlebiidae

Habrophlebia fusca
Leptophlebia marginata
Leptophlebia vespertina
Paraleptophlebia cincta
Paraleptophlebia submarginata

Siphonuridae

Siphonurus alternatus
Siphonurus lacustris

F. DISTRIBUTION DATA

- i) Data collated by Ephemeroptera Recording Scheme is available on the NBN Gateway.
 - ii) SEPA collects and identifies larval Ephemeroptera as part of their routine water quality monitoring.
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G. IDENTIFICATION GUIDES

- i) Elliott, J.M. and Humpesch, U.H. 1983. *A key to the Adults of the British Ephemeroptera with notes on their ecology*. Scientific Publications of the Freshwater Biological Association 47. Freshwater Biological Association.
 - ii) Elliott, J.M., and Humpesch, U.H. 2010. *Mayfly larvae (Ephemeroptera) of Britain and Ireland: Keys and a review of their ecology*. Scientific Publications of the Freshwater Biological Association 66. Freshwater Biological Association.
 - iii) Harker, J. 1989. *Mayflies*. Naturalists' Handbook, No. 13.
 - iv) Macadam, C.R. and Bennett, C.J. (in prep.) *A pictorial guide to the British Ephemeroptera*. Field Studies Council.
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H. OTHER INFORMATION

- a) Current taxonomic keys do not cover all UK species.
 - b) Majority of records are for larvae.
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This document should be referenced as:

Macadam, C. 2010. *Scottish Invertebrate Species Knowledge Dossier: Ephemeroptera (Mayflies)*. 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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