

# Trichoptera (Caddisflies)

A. NUMBER OF SPECIES IN UK: 196

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B. NUMBER OF SPECIES IN SCOTLAND: 163

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C. EXPERT CONTACTS

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D. SPECIES OF CONSERVATION CONCERN

Listed species

*Hagenella clathrata* UKBAP and RDB1

Speyside bogs and a 19<sup>th</sup> century record for Wigtownshire.

Other species

The distribution of Trichoptera is not well-enough mapped to deduce scarcity based on 10km squares occupied. Eversham (1983) suggested that for less-well recorded groups occurrence in 20 or less vice counties (Dandy, 1969) qualified which for Scotland equates to occurrence in 7 or fewer vice counties. On that basis the following species are listed in tabular format.

Species	Number of vice counties	Habitat	Current UK Status as in Wallace (1991); revision <i>in press</i>	Notes
<i>Adicella filicornis</i>	1	Spring-fed trickles	RDB3	1 site Mouse Glen last seen 1975
<i>Adicella reducta</i>	7	Flowing marshes and water course margins	Common	
<i>Agrypnia picta</i>	2	Lakes	RDBK	Probably never actually found in UK as no voucher specimens
<i>Beraeodes minutus</i>	6	Margins of permanent water	Local	

Species	Number of vice counties	Habitat	Current UK Status as in Wallace (1991); revision <i>in press</i>	Notes
<i>Ceraclea senilis</i>	3	Lakes and slow rivers eats sponge	Local to be downgraded from Notable in forthcoming review	SW Scotland and 19 <sup>th</sup> century unconfirmed records for Glasgow area
<i>Holocentropus stagnalis</i>	4	Marshes and ponds	Regionally Notable	
<i>Hydropsyche saxonica</i>	1	Streams and small rivers	Local to be downgraded from RDB1 in forthcoming review	Dumfriesshire but site not known
<i>Hydroptila cornuta</i>	1	Rivers & Streams	Notable	Shetland, site not known astonishing therefore dubious record for this southern species, and a micro- caddis
<i>Hydroptila martini</i>	3	Rivers & Streams	Regionally Notable	A micro caddis so even more under-recorded than other caddis
<i>Hydroptila occulta</i>	6	Rivers & Streams	Local	Streams and Rivers. Past muddling with <i>martini</i> and <i>valesiaca</i> makes it difficult to decide on the number of records
<i>Hydroptila sparsa</i>	4	Rivers & Streams	Regionally Notable	As above
<i>Hydroptila sylvestris</i>	4	Not known	RDBK	A Scottish & Lake District specialist but also a micro caddis so will be under-recorded
<i>Hydroptila tigurina</i>	1	Rivers	RDBK	River Inver, Loch Assynt 2008
<i>Hydroptila valesiaca</i>	5	Spring Streams	Notable	An under-recorded micro caddis from an under-recorded habitat
<i>Limnephilus politus</i>	7	Lakes	Regionally Notable	
<i>Nemotaulius punctatolineatus</i>	5	Blanket Bog and Upland Pond	RDB2	Flow country and Speyside  Good candidate as the Flagship Scottish Caddis. Striking in all stages and from a special habitat.

Species	Number of vice counties	Habitat	Current UK Status as in Wallace (1991); revision <i>in press</i>	Notes
<i>Oecetis furva</i>	5	Weedy lakes	Local	
<i>Orthotrichia angustella</i>	2	Lakes and ponds	Local	A micro caddis, hence under-recorded
<i>Orthotrichia costalis</i>	2	Lakes and ponds	Local	A micro caddis hence under-recorded
<i>Oxyethira mirabilis</i>	1	Blanket Bog	RDBK	Secretive micro caddis hence probably exceedingly under-recorded
<i>Oxyethira simplex</i>	5	Various	Local	A micro caddis hence under-recorded
<i>Oxyethira tristella</i>	5	Various	RDBK	A micro caddis so under-recorded but no modern UK records
<i>Phacopteryx brevipennis</i>  (now in genus <i>Anabolia</i> )	1	Carr woodland	Notable	Woodhall Loch, Laurieston; published record for Port Mor, Muck cannot be substantiated
<i>Potamophylax rotundipennis</i>	2+	Rivers and large streams	Regionally Notable	Wellfield Burn Carluke 19 <sup>th</sup> century; R. Ewe, Londubh; other dubious records
<i>Setodes argentipunctellus</i>	1	Lakes	RDB3	Mochrum Loch (not its neighbours)
<i>Silo nigricornis</i>	5	Rivers	Regionally Notable	
<i>Tinodes assimilis</i>	3	Trickles	Regionally Notable	
<i>Tinodes dives</i>	2	Upland base-rich streams	Notable	Clubbiedean Edinburgh 1932 and Loch Moraig area Blair Atholl 1907
<i>Tricholeiochiton fagesii</i>	1	Ponds and Lakes	Notable	Enigmatic micro caddis but with amazing unmistakable larva. Records scattered across UK 1 Scottish = a lochan on Muir of Dinnett
<i>Trichostegia minor</i>	1	Shaded stagnant leaf-filled pools under trees	Regionally Notable	Caerlaverock
<i>Ylodes reuteri</i>	1	Saline pools	RDB2	Loch Harray, probably largest UK population
<i>Ylodes simulans</i>	2	Rivers	RDB3	River Forth Aberfoyle area

**E. LIST OF SPECIES KNOWN FROM SCOTLAND (nomenclature follows Fauna Europea 2005)**

**Rhyacophilidae** (UK and Scotland 4 species)

*Rhyacophila dorsalis*  
*Rhyacophila fasciata* (was *septentrionis*)  
*Rhyacophila munda*  
*Rhyacophila obliterata*

**Glossosomatidae** (UK 7 species; Scotland 6)

*Glossosoma boltoni*  
*Glossosoma conformis*  
*Agapetus delicatulus*  
*Agapetus fuscipes*  
*Agapetus ochripes*

**Hydroptilidae** (UK 31 species; Scotland 26)

*Agraylea multipunctata*  
*Allotrichia pallicornis*  
*Hydroptila angulata*  
*Hydroptila cornuta*  
*Hydroptila forcipata*  
*Hydroptila martini*  
*Hydroptila occulta*  
*Hydroptila pulchricornis*  
*Hydroptila simulans*  
*Hydroptila sparsa*  
*Hydroptila sylvestris*  
*Hydroptila tigurina*  
*Hydroptila tineoides*  
*Hydroptila valesiaca*  
*Hydroptila vectis*  
*Oxyethira falcata*  
*Oxyethira flavicornis*  
*Oxyethira frici*  
*Oxyethira mirabilis*  
*Oxyethira sagittifera*  
*Oxyethira simplex*  
*Oxyethira tristella*  
*Tricholeiochiton fagesii*  
*Ithytrichia lamellaris*  
*Orthotrichia angustella*  
*Orthotrichia costalis*

**Philopotamidae** (5 UK and Scottish species)

*Philopotamus montanus*  
*Wormaldia mediana*  
*Wormaldia occipitalis*  
*Wormaldia subnigra*  
*Chimarra marginata*

**Psychomyiidae** (UK 11 species; Scotland 7)

*Lype phaeopa*

*Lype reducta*  
*Psychomyia pusilla*  
*Tinodes assimilis*  
*Tinodes dives*  
*Tinodes maclachlani*  
*Tinodes waeneri*

**Ecnomidae** (1 UK species; not found in Scotland)

**Polycentropodidae** (13 UK species; Scotland 11)

*Cyrnus flavidus*  
*Cyrnus trimaculatus*  
*Holocentropus dubius*  
*Holocentropus picicornis*  
*Holocentropus stagnalis*  
*Neureclipsis bimaculata*  
*Plectrocnemia conspersa*  
*Plectrocnemia geniculata*  
*Polycentropus flavomaculatus*  
*Polycentropus irroratus*  
*Polycentropus kingi*

**Hydropsychidae** (11 UK species; 9 in Scotland)

*Cheumatopsyche lepida*  
*Diplectrona felix*  
*Hydropsyche angustipennis*  
*Hydropsyche contubernalis*  
*Hydropsyche fulvipes*  
*Hydropsyche instabilis*  
*Hydropsyche pellucidula*  
*Hydropsyche saxonica*  
*Hydropsyche siltalai*

**Phryganeidae** (10 UK species; 9 in Scotland)

*Agrypnia obsoleta*  
*Agrypnia pagetana*  
*Agrypnia picta*  
*Agrypnia varia*  
*Hagenella clathrata*  
*Oligotricha striata*  
*Phryganea bipunctata*  
*Phryganea grandis*  
*Trichostegia minor*

**Brachycentridae** (1 UK & Scottish species)

*Brachycentrus subnubilus*

**Lepidostomatidae**

*Crunoecia irrorata*  
*Lepidosoma basalis* (was in genus *Lasiocephala*)  
*Lepidosoma hirtum*

**Limnephilidae** (57 UK species; 50 in Scotland)

*Apatania muliebris* / *nielseni* (Fauna Europea recognises these as separate but they cannot be separated in the UK; *nielseni* type are certainly present in Scotland and *muliebris* may also be present so is retained in the list)

*Apatania wallengreni*

*Drusus annulatus*

*Eccliopsteryx dalecarlica* (was *guttulata*)

*Allogamus auricollis*

*Halesus digitatus*

*Halesus radiatus*

*Hydatophylax infumatus*

*Melampopylax mucoreus*

*Mesophylax impunctatus*

*Micropterna lateralis*

*Micropterna sequax*

*Potamophylax cingulatus*

*Potamophylax latipennis*

*Potamophylax rotundipennis*

*Stenophylax permistus*

*Stenophylax vibex*

*Chaetopteryx villosa*

*Anabolia brevipennis* (was in genus *Phacopteryx*)

*Anabolia nervosa*

*Glyphotaelius pellucidus*

*Grammotaulius nigropunctatus*

*Limnephilus affinis*

*Limnephilus auricula*

*Limnephilus binotatus*

*Limnephilus bipunctatus*

*Limnephilus borealis*

*Limnephilus centralis*

*Limnephilus coenosus*

*Limnephilus elegans*

*Limnephilus extricatus*

*Limnephilus flavicornis*

*Limnephilus fuscicornis*

*Limnephilus griseus*

*Limnephilus hirsutus*

*Limnephilus ignavus*

*Limnephilus incisus*

*Limnephilus lunatus*

*Limnephilus luridus*

*Limnephilus marmoratus*

*Limnephilus nigriceps*

*Limnephilus politus*

*Limnephilus rhombicus*

*Limnephilus sparsus*

*Limnephilus stigma*

*Limnephilus subcentralis*

*Limnephilus vittatus*

*Nemotaulius punctatolineatus*

*Rhadicoleptus alpestris*

**Goeridae** (3 UK & Scottish species)

*Goera pilosa*  
*Silo nigricornis*  
*Silo pallipes*

**Beraeidae** (4 UK species; 3 in Scotland)

*Beraea maurus*  
*Beraea pullata*  
*Beraeodes minutus*

**Sericostomatidae** (2 UK species; 1 in Scotland)

*Sericostoma personatum*

**Odontoceridae** (1 UK & Scottish species)

*Odontocerum albicorne*

**Molannidae** (2 UK species; 1 in Scotland)

*Molanna albicans*

**Leptoceridae** (31 UK species; 24 in Scotland)

*Athripsodes albifrons*  
*Athripsodes aterrimus*  
*Athripsodes bilineatus*  
*Athripsodes cinereus*  
*Athripsodes commutatus*  
*Ceraclea albimacula*  
*Ceraclea annulicornis*  
*Ceraclea dissimilis*  
*Ceraclea fulva*  
*Ceraclea nigronervosa*  
*Ceraclea senilis*  
*Mystacides azurea*  
*Mystacides longicornis*  
*Mystacides nigra*  
*Adicella filicornis*  
*Adicella reducta*  
*Triaenodes bicolor*  
*Ylodes reuteri*  
*Ylodes simulans*  
*Oecetis furva*  
*Oecetis lacustris*  
*Oecetis ochracea*  
*Oecetis testacea*  
*Setodes argentipunctellus*

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**F. DISTRIBUTION DATA**

- i) Data collated by Trichoptera Recording Scheme (230,000 UK records) will be made available on the NBN Gateway; an initial trial set of 17,000 records is currently available.
- ii) A Review of the Scarce and Threatened Caddis of the UK is ongoing.

- iii) SEPA collects and identifies larval Trichoptera as part of their routine water quality monitoring.
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## G. IDENTIFICATION GUIDES

- i) Barnard, P.C. and Ross, E. 2008. Guide to the adult caddisflies or sedge flies (Trichoptera). FSC Publications, Shrewsbury. [This is a guide to the families and some of the more conspicuous species.]
  - ii) Barnard, P.C. and Ross, E. In press. *Adult Trichoptera (Caddisflies)*. Royal Entomological Society of London. [This will cover all species and fill a major gap in enabling work by general entomologists with this group of insects.]
  - iii) Edington, J.M. and Hildrew, A.G. 1995. A revised key to the caseless caddis larvae of the British Isles with notes on their ecology. *Scientific Publications of the Freshwater Biological Association* 53 1-134.
  - iv) Wallace, I.D., Wallace, B. and Philipson, G.N. 2003. Keys to the case-bearing caddis larvae of Britain and Ireland. *Scientific Publications of the Freshwater Biological Association* 61 1-259.
  - v) Wallace, I.D. 2006. *Simple key to caddis larvae*. Field Studies Council, Shrewsbury. [This is designed for hand-lens users and covers the more conspicuous species.]
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## H. OTHER INFORMATION

### References

- i) Dandy, J.E. 1969. *Watsonian vice-counties of Great Britain*. London, Ray Society.
  - ii) Eversham, B. 1983. Defining rare and Notable species – a discussion document. *Nature Conservancy Council, CST Report No. 481 (Invertebrate Site Register. Report No. 49)*.
  - iii) Fauna Europeaea 2005 <http://www.faunaeur.org> (March 2005 release).
  - iv) Wallace, I.D. 1991. A review of the Trichoptera of Great Britain. *Research and Survey in Nature Conservation* 32 1-59.
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This document should be referenced as:

Wallace, I. 2010. *Scottish Invertebrate Species Knowledge Dossier: Trichoptera (Caddisflies)*. 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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