

## Annex IV – List of species of high priority for recording

Species in green are named on the survey form and have a separate tick box. Any other species you see can be listed in the Notes field of the survey form, and preferably separately recorded through specialist schemes and [iRecord](#).

Group/species	Key biotopes	Distribution	ID difficulty
<b>Mammals</b>			
Otter ( <i>Lutra lutra</i> )	Anywhere with an abundant fish supply	Widespread	Easy
Water vole ( <i>Arvicola terrestris</i> )	Watercourses with abundant vegetation	Widespread	Easy
<b>Birds</b>			
Dipper ( <i>Cinclus cinclus</i> )	Fast-flowing rivers and streams with exposed cobbles and boulders	Mainly upland	Easy
Kingfisher ( <i>Alcedo atthis</i> )	Clear water with overhanging trees	Lowland	Easy
Grey wagtail ( <i>Motacilla cinerea</i> )	Fast-flowing rivers and streams with exposed cobbles and boulders	Lowland	Easy
<b>Herpetofauna</b>			
Common frog ( <i>Rana temporaria</i> )	Slack water in backwaters or temporary streams	Widespread	Easy
Grass snake ( <i>Natrix natrix</i> )	Slack water in backwaters or temporary streams	Widespread	Easy
<b>Fish</b>			
Bullhead ( <i>Cottus gobio</i> )	Swift-flowing streams with coarse sediments	Widespread	Easy
Brook lamprey ( <i>Lampetra planerii</i> )	Swift-flowing streams with coarse and fine sediments	Widespread	Easy
Brown trout ( <i>Salmo trutta</i> )	Swift-flowing streams with coarse sediments	Widespread	Moderate
Atlantic salmon ( <i>Salmo salar</i> )	Swift-flowing streams with coarse sediments	Widespread	Moderate
<b>Invertebrates</b>			
White-clawed crayfish ( <i>Austropotamobius pallipes</i> )	Streams and rivers of high alkalinity.	Widespread in calcareous waters	Moderate
<i>Plectrocnemia</i> sp (Caseless caddis-flies)	Headwater stream specialists, key predators in naturally fishless streams	Widespread	Moderate
<i>Wormaldia</i> sp (Caseless caddis-flies)	Headwater stream specialists, particularly where bryophytes are abundant. Larvae spin nets in water drops between boulders etc.	Widespread, partic in uplands	Moderate
<i>Lype</i> sp ((Caseless caddis-flies))	Larvae build galleries on submerged rotting wood, mainly in streams	Widespread	Moderate
<i>Crenobia alpina</i> (Flatworm)	Stony substrates in fast-flowing streams	Widespread but local, upland and lowland	Moderate
<i>Phagocata vitta</i> (Flatworm)	Vegetation and fine substrates in cool springs and streams	Widespread but uncommon	Moderate
<i>Polycelis felina</i> (Flatworm)	Stony substrates in streams of moderate current velocities	Widespread, relatively common	Moderate
<i>Coenagrion mercuriale</i> (Southern Damselfly)	Nymphs in runnels feeding into main stream	V restricted	Moderate
<i>Ceriatrion tenellum</i> (Small red damselfly)	Nymphs in runnels and pools feeding into main stream	Restricted	Moderate
<i>Capnia vidua</i> (Stonefly)	Small stony streams	Upland, scarce but under-recorded	Advanced
<i>Amphinemura standfussi</i> . (Stonefly)	Amongst plants/plant fragments	Widespread but uncommon	Advanced
<i>Apatania muliebris</i> (Cased caddis-fly)	Small streams and trickles with stony sub-stratum, near springs	Widespread but v. local	Advanced
<i>Beraea maurus</i> (Cased caddis-fly)	Among moss and fallen leaves, in small springs and trickles	Widespread and common	Advanced
<i>Beraea pullata</i> (Cased caddis-fly)	Dense vegetation in springs and runnels and wet stream-sides.	Widespread and common	Advanced
<i>Ernodes articularis</i> (Cased caddis-fly)	Among moss and fallen leaves, in small springs and trickles of hard water, particularly where tufa is formed	Patchy and rare	Advanced

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<i>Crunoecia irrorata</i> , (Cased caddis-fly)	Among dead leaves in trickles, runnels and tiny woodland streams	Widespread but local	Advanced
<i>Glossosoma intermedium</i> (Cased caddis-fly)	Base-rich stony streams of moderate hydraulic energy	V. rare but probably under-recorded	Advanced
<i>Adicella filicornis</i> , (Cased caddis-fly)	Very small shallow springs	Widespread but v. local	Advanced
<i>Diplectrona felix</i> , (Caseless caddis-fly)	Wide range of substrates in small streams and springs including fine gravel, cobbles, bedrock and woody debris.	Uncommon	Advanced
<i>Wormaldia occipitalis</i> (Caseless caddis-fly)	Larvae spin nets on coarse gravels, boulders, bedrock. Neutral to alkaline waters	Mainly upland	Advanced
<i>Plectrocnemia geniculata</i> (Caseless caddis-fly)	Headwater stream specialist, in non-acidic waters	Widespread	Advanced
<i>Plectrocnemia brevis</i> (Caseless caddis-fly)	Tree-shaded trickles and runnels feeding into streams (usually tufa-forming streams)	Under-recorded	Advanced
<i>Ameletus inopinatus</i> (Mayfly)	Cobbles, plant roots and rhizomes. Good climate change indicator	Mainly uplands	Advanced
<i>Paraleptophlebia wernerii</i> (Mayfly)	Calcareous streams including chalk winterbournes	Mainly lowland	Advanced
<b>Flowering plants</b>			
<i>Water crowfoots (Ranunculus sp)</i>	In wide-ranging freshwater conditions but in headwater streams where hydraulic energy not too high and with sufficient gaps in tree canopy	Widespread but mainly lowland	Easy
<i>Golden saxifrage (Chrysosplenium sp)</i>	Damp soils/flushes in tree-shaded streamsides and wet woodland	Widespread	Easy
<i>Pond water-crowfoot (Ranunculus peltatus)</i>	Chalk winterbournes	Lowland	Moderate
<i>Lesser marshwort (Apium inundatum)</i>	Includes flushes and streams, mainly nutrient-poor waters	Widespread but scarce	Moderate
<b>Ferns</b>			
<i>Lady fern (Athyrum Filix-femina)</i>	Stream sides in shady woods, with roots in running water	Widespread	Moderate
<i>Oak fern (Gymnocarpium dryopteris)</i>	Peaty streamsides in open woodland or ravines	Widespread but rare in lowlands	Moderate
<i>Lemon-scented fern (Oreopteris limbosperma)</i>	Damp peaty soils on steep stream banks	Common in uplands but scarce in lowlands	Moderate
Filmy ferns (Hymenophyllaceae)	Intermingled with mosses and liverworts on steep stream sides with constant very high humidity	Mainly western/ upland, scarce in lowlands	Moderate
<b>Bryophytes</b>			
<i>Fontinalis sp (Mosses)</i>	Fully aquatic, attached to rocks	Widespread	Moderate
<i>Fissidens sp (Mosses)</i>	On permanently wet rocks	Widespread	Moderate
<i>Pellia sp (Thallose liverworts)</i>	On boulders, rocks and tree roots in humid environments (not normally submerged)	Widespread	Moderate
<i>Sphagnum species</i>	In riparian flushes.	Widespread	Easy
<i>Cinclidotus fontinaloides</i> (Moss)	Frequently submerged rocks and tree roots, not in acidic waters	Mainly upland areas	Advanced
<i>Platyhypnidium ripariodes</i> (Moss)	On submerged or usually submerged stones, tree roots and wood	Mainly lowland areas	Advanced
<i>Schistidium rivulare</i> (Moss)	On fairly regularly submerged rocks and tree roots in humid environments	Mainly upland areas	Advanced
<i>Hygroamblystegium fluviatile</i> (Moss)	On occasionally submerged rocks and sometimes tree roots in humic environments	Mainly upland areas	Advanced
<i>Racomitrium aciculare</i> (Moss)	On infrequently submerged rocks in humid environments	Mainly upland areas	Advanced
<i>Scapania undulata</i> (Leafy liverwort)	On rocks in stream channel	Mainly upland areas	Advanced