

**Table S3.** List of invertebrate taxa in samples analysed and their classification into headwater, river, generalist or n/a-taxa.

Note that this is an unfiltered list and that during the assessment calculation several higher level taxa are automatically ignored. The detailed stream zonation preference of invertebrates is available at <http://www.freshwaterecology.info> following a login.

Scientific name	Classification
<i>Adicella filicornis</i>	headwater
<i>Agabus paludosus</i>	river
<i>Agabus</i> sp.	n/a
<i>Agapetinae</i> Gen. sp.	n/a
<i>Agapetus fuscipes</i>	headwater
<i>Agapetus ochripes</i>	generalist
<i>Allogamus auricollis</i>	generalist
<i>Amphinemura</i> sp.	n/a
<i>Amphipoda</i> Gen. sp.	n/a
<i>Anabolia nervosa</i>	river
<i>Anacaena globulus</i>	n/a
<i>Anacaena limbata</i>	river
<i>Ancylus fluviatilis</i>	generalist
<i>Anisus vortex</i>	river
<i>Annitella obscurata</i>	generalist
<i>Anodonta anatina</i>	n/a
<i>Anomalopterygella chauviniana</i>	generalist
<i>Antocha</i> sp.	n/a
<i>Aphelocheirus aestivalis</i>	river
<i>Asellus aquaticus</i>	n/a
<i>Atherix ibis</i>	generalist
<i>Athripsodes albifrons</i>	generalist
<i>Athripsodes bilineatus bilineatus</i>	generalist
<i>Athripsodes cinereus</i>	n/a
<i>Athripsodes commutatus</i>	generalist
<i>Athripsodes</i> sp.	n/a
<i>Atrichops crassipes</i>	n/a
<i>Baetidae</i> Gen. sp.	n/a
<i>Baetis alpinus</i>	generalist
<i>Baetis alpinus/lutheri/melanonyx/wardarensis</i>	n/a
<i>Baetis alpinus-Gr.</i>	n/a
<i>Baetis buceratus</i>	generalist
<i>Baetis fuscatus</i>	generalist
<i>Baetis fuscatus/scambus</i>	n/a
<i>Baetis lutheri</i>	generalist
<i>Baetis muticus</i>	generalist
<i>Baetis niger</i>	generalist
<i>Baetis rhodani</i>	generalist
<i>Baetis scambus</i>	generalist
<i>Baetis</i> sp.	generalist
<i>Baetis wardarensis</i>	generalist
<i>Baetis vernus</i>	generalist
<i>Beraeodes minutus</i>	generalist
<i>Bezzia</i> sp.	n/a
<i>Bithynia leachii</i> ssp.	river

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<i>Bithynia tentaculata</i>	n/a
<i>Brachycentrus maculatus</i>	generalist
<i>Brachycentrus subnubilus</i>	generalist
<i>Brachyptera risi</i>	generalist
<i>Brachyptera seticornis</i>	generalist
<i>Brachyptera</i> sp.	n/a
<i>Brillia bifida</i>	n/a
<i>Bythinella</i> sp.	headwater
<i>Caenis beskidensis</i>	generalist
<i>Caenis luctuosa</i>	n/a
<i>Caenis luctuosa/macrura</i>	n/a
<i>Caenis macrura</i>	n/a
<i>Caenis rivulorum</i>	generalist
<i>Caenis</i> sp.	n/a
<i>Calopteryx</i> sp.	n/a
<i>Calopteryx splendens</i>	river
<i>Calopteryx virgo</i>	generalist
<i>Capnia</i> sp.	n/a
<i>Centroptilum luteolum</i>	n/a
<i>Ceraclea dissimilis</i>	generalist
<i>Ceraclea</i> sp.	n/a
<i>Ceratopogonidae</i> Gen. sp.	n/a
<i>Ceratopogoninae</i> Gen. sp.	n/a
<i>Ceratopogoninae/Palpomyiinae</i> Gen. sp.	n/a
<i>Chaetopterygini/Stenophylacini</i> Gen. sp.	n/a
<i>Chaetopteryx fusca/villosa</i>	n/a
<i>Chaetopteryx</i> sp.	n/a
<i>Chaetopteryx villosa villosa</i>	generalist
<i>Chelifera</i> sp.	n/a
<i>Cheumatopsyche lepida</i>	generalist
<i>Chironomidae</i> Gen. sp.	n/a
<i>Chironominae</i> Gen. sp.	n/a
<i>Chironomini</i> Gen. sp.	n/a
<i>Chironomus</i> sp.	n/a
<i>Chloroperla</i> sp.	n/a
<i>Chloroperlidae</i> Gen. sp.	n/a
<i>Chrysopilus</i> sp.	n/a
<i>Clinocera</i> sp.	generalist
<i>Clinocerinae</i> Gen. sp.	n/a
<i>Cloeon dipterum</i>	river
<i>Coenagrionidae</i> Gen. sp.	n/a
<i>Cordulegaster boltonii</i>	generalist
<i>Corixa dentipes</i>	river
<i>Corixidae</i> Gen. sp.	n/a
<i>Corixinae</i> Gen. sp.	n/a
<i>Corophium curvispinum</i>	river
<i>Cyrrus flavidus</i>	n/a
<i>Cyrrus trimaculatus</i>	generalist

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Scientific name	Classification
Dendrocoelum lacteum	n/a
Diamesinae Gen. sp.	n/a
Dicranota sp.	generalist
Dicranota (Dicranota) sp.	n/a
Dikerogammarus villosus	n/a
Dinocras sp.	n/a
Diptera Gen. sp.	n/a
Diura bicaudata	headwater
Drusus annulatus	headwater
Drusus annulatus/biguttatus	n/a
Drusus chrysotus	headwater
Drusus sp.	n/a
Drusus trifidus	headwater
Dryopidae Gen. sp.	n/a
Dugesia gonocephala	generalist
Dugesia lugubris/polychroa	n/a
Dugesia sp.	n/a
Dytiscidae Gen. sp.	n/a
Ecclisopteryx dalearlica	generalist
Ecclisopteryx madida	headwater
Ecclisopteryx sp.	generalist
Ecdyonurus dispar	generalist
Ecdyonurus sp.	n/a
Ecdyonurus torrentis	generalist
Ecdyonurus venosus-Gr.	generalist
Echinogammarus berilloni	n/a
Echinogammarus sp.	n/a
Eiseniella tetraedra	generalist
Electrogena affinis	generalist
Elmidae Gen. sp.	n/a
Elmis aenea	generalist
Elmis aenea Ad.	generalist
Elmis aenea/maugetii	n/a
Elmis aenea/maugetii Ad.	n/a
Elmis aenea/maugetii/rietscheli/rioloides	n/a
Elmis aenea/maugetii/rietscheli/rioloides Ad.	n/a
Elmis latreillei	headwater
Elmis maugetii Ad.	generalist
Elmis maugetii Lv.	generalist
Elmis sp.	generalist
Elmis sp. Ad.	generalist
Elmis sp. Lv.	generalist
Elodes marginata Lv.	n/a
Elodes minuta	n/a
Elodes minuta-Gr. Lv.	n/a
Elodes sp.	n/a
Eloeophila sp.	n/a
Elophila sp.	n/a

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Empididae Gen. sp.	n/a
Enchytraeidae Gen. sp.	n/a
Enchytraeus buchholzii	n/a
Epeorus assimilis	n/a
Epeorus sp.	generalist
Epeorus sylvicola	generalist
Ephemera danica	generalist
Ephemera sp.	n/a
Ephemerella mucronata	generalist
Ephemerella sp.	n/a
Ephemerellidae Gen. sp.	n/a
Erpobdella nigricollis	river
Erpobdella octoculata	n/a
Erpobdella sp.	n/a
Erpobdella vilnensis	generalist
Erpobdellidae Gen. sp.	n/a
Esolus angustatus	generalist
Esolus parallelepipedus Ad.	generalist
Esolus sp.	generalist
Esolus sp. Ad.	generalist
Esolus sp. Lv.	generalist
Fredericella sultana	river
Galba truncatula	n/a
Gammaridae Gen. sp.	n/a
Gammarus fossarum	generalist
Gammarus fossarum/pulex	n/a
Gammarus pulex	generalist
Gammarus roeselii	n/a
Gammarus sp.	n/a
Gammarus tigrinus	n/a
Gerridae Gen. sp.	n/a
Gerris lacustris	river
Gerris sp.	n/a
Glossiphonia complanata	n/a
Glossiphonia nebulosa	generalist
Glossiphonia sp.	n/a
Glossiphoniidae Gen. sp.	n/a
Glossosoma boltoni	generalist
Glossosoma conformis	headwater
Glyphotaelius pellucidus	river
Goera pilosa	generalist
Goeridae Gen. sp.	n/a
Gordius aquaticus	n/a
Gyraulus albus	n/a
Habroleptoides confusa	generalist
Habroleptoides sp.	n/a
Habrophlebia fusca	n/a
Habrophlebia lauta	n/a

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Scientific name	Classification
Haemopsis sanguisuga	n/a
Halesus digitatus digitatus	generalist
Halesus digitatus/tesselatus	n/a
Halesus radiatus	generalist
Halesus sp.	n/a
Halesus tessellatus	generalist
Haliphus fluviatilis	river
Haliphus lineatocollis	n/a
Haliphus sp.	n/a
Haplotaxidae Gen. sp.	n/a
Haplotaxis gordioides	generalist
Helobdella stagnalis	n/a
Helophorus brevipalpis Ad.	river
Hemerodromia sp.	n/a
Henlea sp.	n/a
Heptagenia sulphurea	generalist
Heptageniidae Gen. sp.	generalist
Heterotrissocladius marcidus	n/a
Hydrachnidia Gen. sp.	n/a
Hydraena dentipes	generalist
Hydraena gracilis	generalist
Hydraena gracilis Ad.	generalist
Hydraena riparia	n/a
Hydraena riparia Ad.	n/a
Hydraena sp.	n/a
Hydraena sp. Ad.	n/a
Hydraena testacea Ad.	n/a
Hydraena truncata	generalist
Hydrocyphon deflexicollis Lv.	n/a
Hydroporinae Gen. sp. Lv.	n/a
Hydroporus palustris	river
Hydropsyche angustipennis angustipennis	n/a
Hydropsyche botosaneanui/incognita/pellucidula	n/a
Hydropsyche contubernalis ssp.	generalist
Hydropsyche dinarica	generalist
Hydropsyche fulvipes	headwater
Hydropsyche incognita	generalist
Hydropsyche incognita/pellucidula	n/a
Hydropsyche instabilis	generalist
Hydropsyche pellucidula	generalist
Hydropsyche pellucidula-Gr.	n/a
Hydropsyche saxonica	headwater
Hydropsyche siltalai	generalist
Hydropsyche sp.	n/a
Hydroptila sp.	n/a
Ibisia marginata	n/a
Ilybius fuliginosus	river
Ironoquia dubia	n/a

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Isoperla grammatica	generalist
Isoperla sp.	n/a
Laccobius (Laccobius) sp.	n/a
Lepidostoma basale	generalist
Lepidostoma hirtum	generalist
Leptoceridae Gen. sp.	n/a
Leptocerus interruptus	river
Leptophlebia marginata	river
Leptophlebiidae Gen. sp.	n/a
Leuctra braueri	headwater
Leuctra geniculata	river
Leuctra nigra	n/a
Leuctra sp.	generalist
Limnadiidae Gen. sp.	n/a
Limnephilidae Gen. sp.	n/a
Limnephilinae Gen. sp.	n/a
Limnephilini Gen. sp.	n/a
Limnephilus binotatus	river
Limnephilus germanus	river
Limnephilus lunatus	river
Limnephilus rhombicus rhombicus	river
Limnius opacus Ad.	generalist
Limnius opacus Lv.	generalist
Limnius perrisi	generalist
Limnius perrisi Ad.	generalist
Limnius perrisi Lv.	generalist
Limnius sp.	n/a
Limnius sp. Lv.	n/a
Limnius volckmari	generalist
Limnius volckmari Ad.	generalist
Limnius volckmari Lv.	generalist
Limnodrilus hoffmeisteri	n/a
Limnodrilus sp.	n/a
Limoniidae Gen. sp.	n/a
Liponeura brevirostris/decipiens/vimmeri	n/a
Liponeura sp.	headwater
Lithax niger	headwater
Lumbriculidae Gen. sp.	n/a
Lumbriculus variegatus	n/a
Lymnaea stagnalis	river
Lype phaeopa	generalist
Lype reducta	generalist
Macronychus quadrituberculatus Lv.	river
Melampophylax mucoreus	generalist
Micrasema longulum	generalist
Micrasema minimum	generalist
Micronecta sp.	n/a
Micropsectra notescens-Gr.	n/a

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Micropsectra sp.	n/a
Micropterna lateralis/sequax	n/a
Microtendipes chloris-Gr.	n/a
Microtendipes sp.	n/a
Molanna angustata	river
Mystacides nigra	n/a
Mystacides sp.	n/a
Naididae/Tubificidae Gen. sp.	n/a
Nematoda Gen. sp.	n/a
Nemoura cinerea cinerea	n/a
Nemoura sp.	n/a
Nemouridae Gen. sp.	n/a
Nemurella sp.	n/a
Nepa cinerea	river
Neureclipsis bimaculata	river
Notidobia ciliaris	generalist
Notonecta glauca glauca	river
Odontocerum albicorne	headwater
Oecetis furva	river
Oecetis notata	generalist
Oecismus monedula monedula	generalist
Oligochaeta Gen. sp.	n/a
Onychogomphus forcipatus ssp.	generalist
Onychogomphus sp.	n/a
Orectochilus villosus	generalist
Orectochilus villosus Ad.	generalist
Orectochilus villosus Lv.	generalist
Oreodytes sanmarkii	generalist
Oreodytes sanmarkii Ad.	generalist
Orthocladiinae Gen. sp.	n/a
Oulimnius sp.	n/a
Oulimnius sp. Ad.	n/a
Oulimnius sp. Lv.	n/a
Oulimnius tuberculatus	generalist
Oulimnius tuberculatus Ad.	generalist
Oulimnius tuberculatus Lv.	generalist
Paraleptophlebia sp.	n/a
Paraleptophlebia submarginata	generalist
Pedicia sp.	n/a
Peltodytes caesus	river
Perla marginata	generalist
Perlidae Gen. sp.	n/a
Perlodes sp.	n/a
Philopotamus montanus montanus	headwater
Physa fontinalis	river
Pilaria sp.	n/a
Pisidium amnicum	river
Pisidium casertanum ssp.	n/a

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<i>Pisidium henslowanum</i>	river
<i>Pisidium milium</i>	river
<i>Pisidium moitessierianum</i>	river
<i>Pisidium</i> sp.	n/a
<i>Pisidium subtruncatum</i>	n/a
<i>Pisidium supinum</i>	river
<i>Planaria torva</i>	river
<i>Planorbidae</i> Gen. sp.	n/a
<i>Planorbis carinatus</i>	river
<i>Planorbis planorbis</i>	river
<i>Platambus maculatus</i>	generalist
<i>Platambus maculatus</i> Lv.	generalist
<i>Platycnemis pennipes</i>	river
<i>Plectrocnemia conspersa conspersa</i>	generalist
<i>Plectrocnemia</i> sp.	n/a
<i>Plumatella fungosa</i>	river
<i>Plumatella</i> sp.	n/a
<i>Polycelis nigra/tenuis</i>	n/a
<i>Polycelis tenuis</i>	generalist
<i>Polycentropodidae</i> Gen. sp.	n/a
<i>Polycentropus flavomaculatus flavomaculatus</i>	n/a
<i>Polypedilum albicorne</i>	headwater
<i>Polypedilum convictum</i>	generalist
<i>Polypedilum pedestre</i>	n/a
<i>Polypedilum scalaenum</i>	n/a
<i>Polypedilum</i> sp.	n/a
<i>Porifera</i> Gen. sp.	n/a
<i>Potamanthus luteus</i>	river
<i>Potamophylax cingulatus/latipennis/luctuosus</i>	n/a
<i>Potamophylax rotundipennis</i>	generalist
<i>Potamophylax</i> sp.	n/a
<i>Potamopyrgus antipodarum</i>	n/a
<i>Potamothrix hammoniensis</i>	n/a
<i>Proasellus coxalis</i>	n/a
<i>Procloeon bifidum</i>	n/a
<i>Prodiamesa olivacea</i>	generalist
<i>Prosimulium</i> sp.	generalist
<i>Prosimulium tomosvaryi</i>	generalist
<i>Protonemura</i> sp.	headwater
<i>Psammoryctides barbatus</i>	n/a
<i>Psychodidae</i> Gen. sp.	n/a
<i>Psychomyia pusilla</i>	generalist
<i>Ptychoptera</i> sp.	n/a
<i>Radix auricularia</i>	river
<i>Radix balthica</i>	generalist
<i>Radix balthica/labiata</i>	n/a
<i>Radix</i> sp.	n/a
<i>Rhantus</i> sp. Lv.	n/a



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Rhithrogena picteti	generalist
Rhithrogena semicolorata-Gr.	generalist
Rhithrogena sp.	generalist
Rhyacodrilus coccineus	river
Rhyacophila dorsalis/nubila	n/a
Rhyacophila evoluta	generalist
Rhyacophila fasciata fasciata	headwater
Rhyacophila glareosa	headwater
Rhyacophila intermedia	headwater
Rhyacophila nubila	generalist
Rhyacophila oblitterata	generalist
Rhyacophila praemorsa	headwater
Rhyacophila s. str. sp.	n/a
Rhyacophila sp.	n/a
Rhyacophila torrentium	generalist
Rhyacophila tristis	generalist
Rhyacophila vulgaris	headwater
Rhyacophila vulgaris-Gr.	n/a
Rhyacophila (Hyperrhyacophila) sp.	n/a
Rhyacophila (Rhyacophila) sp.	n/a
Rhynchelmis limosella	n/a
Riolus sp.	n/a
Riolus sp. Lv.	n/a
Sericostoma flavicorne/personatum	n/a
Sericostoma personatum	headwater
Sericostoma sp.	n/a
Serratella ignita	generalist
Sialis fuliginosa	generalist
Sialis lutaria	n/a
Sialis sp.	n/a
Sigara falleni	river
Sigara striata	river
Silo nigricornis	generalist
Silo nigricornis/piceus	n/a
Silo pallipes	generalist
Silo piceus	generalist
Silo sp.	n/a
Simulium angustitarse	generalist
Simulium cryophilum	generalist
Simulium lundstromi	generalist
Simulium ornatum	generalist
Simulium ornatum-Gr.	n/a
Simulium sp.	n/a
Simulium (Simulium) sp.	generalist
Simulium (Wilhelmia) sp.	n/a
Siphonurus aestivalis	river
Siphonoperla sp.	n/a
Siphonoperla torrentium torrentium	generalist

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Sisyra sp.	n/a
Sphaerium corneum	n/a
Sphaerium ovale	n/a
Sphaerium sp.	n/a
Stenelmis canaliculata	generalist
Stenelmis canaliculata Ad.	generalist
Stenelmis canaliculata Lv.	generalist
Stenelmis sp. Lv.	n/a
Stenophylacini Gen. sp.	n/a
Stictotarsus sp. Lv.	n/a
Stratiomyiidae Gen. sp.	n/a
Stylaria lacustris	n/a
Stylodrilus heringianus	generalist
Tabanidae Gen. sp.	n/a
Tanypodinae Gen. sp.	n/a
Tanytarsini Gen. sp.	n/a
Theromyzon tessulatum	river
Tinodes pallidulus	headwater
Tinodes rostocki	generalist
Tinodes sp.	n/a
Tinodes waeneri ssp.	river
Tipula sp.	n/a
Tipulidae Gen. sp.	n/a
Torleya major	generalist
Trichoptera Gen. sp.	n/a
Trochetinae Gen. sp.	n/a
Tubifex tubifex	n/a
Tubificidae Gen. sp.	n/a
Tubificidae juv with setae	n/a
Turbellaria Gen. sp.	n/a
Tvetenia sp.	n/a
Unio pictorum ssp.	n/a
Unio tumidus tumidus	river
Valvata piscinalis piscinalis	n/a
Valvata piscinalis ssp.	n/a
Velia sp.	n/a
Viviparus viviparus	n/a
Zygoptera Gen. sp.	n/a