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IUCN, International Union for Conservation of Nature, Switzerland
UOXF.AC, Oxford University, UK
UB, Universitat de Barcelona, Spain
UFZ, Helmholtz Zentrum für Umweltforschung, Germany
UCL, University College of London, UK
UCBL, Université Claude Bernard - Lyon 1, France
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ECOLOGIC, Ecologic GmbH Institut für Internationale und Europäische Umweltpolitik, Germany
EC-ERC, Commission of the European Communities - Directorate General Joint Research Centre,
Italy
UD, University of Debrecin, Hungary
NRM, Naturhistoriska riksmuseet, Sweden
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BIOFRESH

Biodiversity of Freshwater Ecosystems: Status, Trends, Pressures, and Conservation Priorities

Project no. 226874


Large scale collaborative project

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RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

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In case the report consists of the delivery of materials (guidelines, manuscripts, etc)

Delivery name	Delivery file name	From Partner	To Partner

BioMatrix - METADATA

Contemporary distributions of freshwater biodiversity

March 2013
IUCN Freshwater Biodiversity Unit

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BIOMATRIX SUMMARY

This document provides metadata on the BioMatrix (BioFresh Task 4.4) to guide usage.

The BioMatrix is an output for the *BioFresh* project funded by the European Union under the Seventh Framework Programme (FP7), Theme 6 (Biodiversity of Freshwater Ecosystems: Status, Trends, Pressures and Conservation Priorities).

The BioMatrix is a data repository of contemporary distributions of freshwater biodiversity created by the *BioFresh* project, largely drawn from species range maps, a range of environmental variables, species trait data, and IUCN Red List™ species assessments. A particular advantage of the BioMatrix is that it enables spatial analyses within and between regions across the globe as, for the first time, it provides all the data in a common spatial framework, i.e. all data are mapped to the HydroBASINS¹ catchments, also created as part of the *BioFresh* project. In addition, the data will be available at other spatial resolutions such as WWF's freshwater ecoregions.

This dataset enables a wide range of spatial analyses, such as the creation of species richness maps to identify centres of diversity, centres of threat, and Freshwater Key Biodiversity Areas². Species range maps can also be analysed against the spatial distribution of a number of environmental variables providing the basis for subsequent species range modelling, and also for predictive modelling of species range shifts under various scenarios such as for climate change. Gap analyses in relation to the spatial overlap of protected areas and species distributions are also possible using data within the BioMatrix. See page 6 for some example outputs based on the BioMatrix data sets.

Time line

The BioMatrix is a "living" repository for data that is actively updated and added to ensure that knowledge on freshwater species available to the scientific and wider community is ever-expanding. Therefore, the addition of datasets to the BioMatrix is an ongoing process and updated releases of the BioMatrix will continue beyond March 28th 2013 as and when new components are added. A second public release of the BioMatrix is scheduled for the end of July 2013.

The longterm sustainability of the BioMatrix is assured as IUCN will continue to host, maintain, and update the database beyond the currently funded period of the BioFresh Project.

Key features

Platform – The BioMatrix contains data for a range of taxonomic groups at the European and global scales and has been split into text files of key taxonomic groups to enable easy access for different user groups.

Accessibility – The BioMatrix data are available for download via the IUCN Freshwater Biodiversity Unit website:

http://www.iucn.org/about/work/programmes/species/our_work/about_freshwater/what_we_do_freshwater/bio_fresh/

Geographical coverage – The data primarily include locations where IUCN Red List freshwater species assessments have been completed and mapped to date (see Figure 1 as an example). As further areas are completed, the data will be incorporated in the BioMatrix.

¹ Lehner, B. (2012) HydroBASINS version 1b. Global watershed boundaries and sub-basin delineation derived from HydroSHEDS data at 15 second resolution. Technical Documentation.

² Holland et al. (2012) Conservation priorities for freshwater biodiversity: The Key Biodiversity Area approach refined and tested for continental Africa. *Biological Conservation* 148: 167-179.

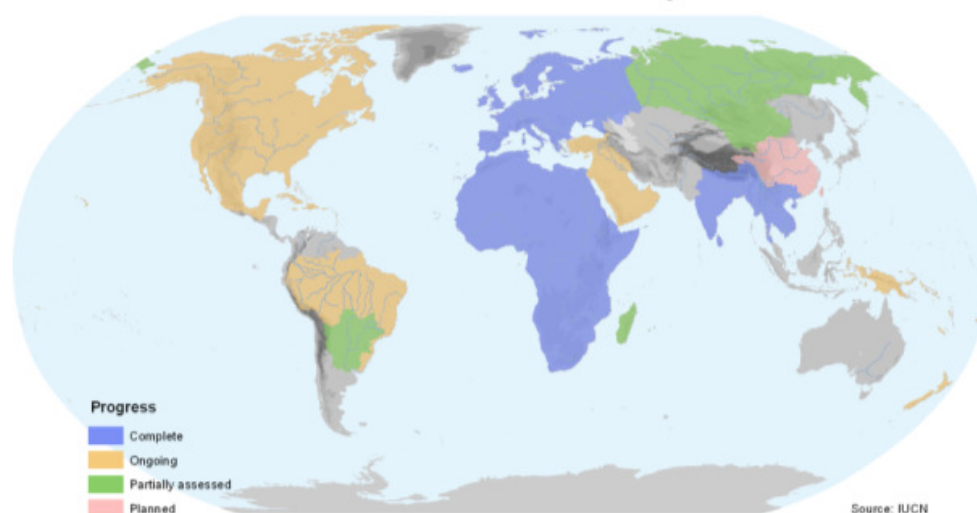


Figure 1: Map of freshwater fish red list assessment progress

Spatial resolutions – Spatial resolutions include HydroBASINS and WWF freshwater ecoregions. Ecoregion-scale data will be added to the BioMatrix for the second release in July 2013. Each species distribution is mapped to sub-catchments using the HydroBASINS global catchment layer. HydroBASIN catchments are available at twelve spatial resolutions and the species distributions have been mapped to either HydroBASIN level 8 or level 10 (depending on suitability for a given species). Mapping freshwater species distributions to freshwater catchments is necessary as catchments are the management unit for freshwater species and allow for the improvement of spatially-explicit scientific knowledge and conservation planning decisions.

Freshwater species coverage – Species groups include waterbirds, mammals, amphibians, crabs, crayfish, fish, odonata, molluscs, reptiles, shrimps, turtles and aquatic plants. Some of these data sets will be added to the BioMatrix for the second release in July 2013.

Temporal coverage – The species data are largely based on the latest IUCN Red List assessment version 2012.2 and the year the associated distributions were mapped to a shapefile range from 2004 - 2013.

Environmental data coverage – The environmental data have been extracted at the HydroBASIN level 8 resolution and will be made available pending publishing permissions.

Species distribution - Biological data will be presented by different metrics (e.g. presence in each HydroBASIN and total number of species etc).

Species trait data – Species trait data are currently limited to those made available through a number of projects funded by the European Commission as downloaded from the website: www.freshwaterecology.info.

Spatial Data Fields

FIELD	TYPE	DESCRIPTION
BINOMIAL	String	Scientific name of the species.
CITATION	String	Individual/s or institution responsible for providing the data.
COMPILER	String	Name of the individual/s or institution responsible for generating the polygon, if not IUCN.
DIST_COMM	String	Distribution comments that refer directly to the polygon.
HYBAS_ID	Numeric	River sub-catchment ID (Level 8 or 10 HydroBASINS as appropriate for the species).
ISLAND	String	Name of the island the sub-catchment is on.
LEGEND	String	Code containing the combinations of the presence, origin and seasonality fields determining how the map will be displayed on the IUCN Red List website.
ORIGIN	Integer	Why/ How the species is in this area, codes listed below.
PRESENCE	Integer	Is/Was the species in this area, codes listed below.
SEASONAL	Integer	What is the seasonal presence of the species in the area, codes listed below.
SOURCE	String	Source of distribution range given.
SUBPOP	String	Epithet.

SUBSPECIES	String	Epithet.
TAX_COMM	String	Taxonomic comments that refer directly to the polygon. Includes notes on polygons pertaining to subspecies or subpopulations.
YEAR	Integer	Year in which the polygon was mapped or compiled, or modified.

PRESENCE

CODE	PRESENCE
1	Extant
2	Probably Extant
3	Possibly Extant
4	Possibly Extinct
5	Extinct (post 1500)
6	Presence Uncertain

Extant – The species is known or thought very likely to occur presently in the area, usually encompassing current or recent (post 1980) localities where suitable habitat at appropriate altitudes (or depths) remains.

Probably Extant – The species' presence is considered probable, either based on extrapolations of known records, or realistic inferences (e.g., based on distribution of suitable habitat at appropriate altitudes and proximity to areas where it is known or thought very likely to remain Extant). 'Probably Extant' ranges often extend beyond areas where the species is Extant, or may fall between them.

Possibly Extant – The species may possibly occur, and should be searched for, but there are no known records and less than probable occurrence. 'Possibly Extant' ranges often extend beyond areas where the species is Extant or Probably Extant, or may fall between them.

Possibly Extinct – The species was formerly known or thought very likely to occur in the area, but it is most likely now extirpated from the area because habitat loss/other threats are thought likely to have extirpated the species and/or owing to a lack of records in the last 30 years.

Extinct – The species was formerly known or thought very likely to occur in the area, but there have been no records in the last 30 years and it is almost certain that the species no longer occurs, and/or habitat loss/other threats have almost certainly extirpated the species.

Presence Uncertain – The species was formerly known or thought very likely to occur in the area but it is no longer known whether it still occurs (usually because there have been no recent surveys).

Notes:

- These codes are mutually exclusive; a polygon coded as "Extant" cannot also be coded as "Extinct".
- To obtain the total historical range of a species, one would sum polygons for Extant, Probably Extant, Possibly Extinct, Extinct and Presence Uncertain, but not Possibly Extant.

ORIGIN

CODE	ORIGIN
1	Native
2	Reintroduced
3	Introduced
4	Vagrant
5	Origin Uncertain

Native – The species is/was native to the area.

Reintroduced - The species is/was reintroduced through either direct or indirect human activity.

Introduced – The species is/was introduced outside of its historical distribution range through either direct or indirect human activity.

Vagrant – The species is/was recorded once or sporadically, but it is known not to be Native to the area.

Origin Uncertain - The species' provenance in an area is not known (it may be Native, Reintroduced or Introduced).

Notes:

- These codes are mutually exclusive; a polygon coded as "Native" cannot also be coded as "Introduced".

SEASONALITY

CODE	SEASONALITY
1	Resident
2	Breeding Season
3	Non-breeding Season
4	Passage
5	Seasonal Occurrence Uncertain

Resident – the species is/was known or thought very likely to be resident throughout the year.

Breeding Season – The species is/was known or thought very likely to occur regularly during the breeding season and to breed.

Non-breeding Season – The species is/was known or thought very likely to occur regularly during the non-breeding season. In the Eurasian and North American contexts, this encompasses 'winter'.

Passage – The species is/was known or thought very likely to occur regularly during a relatively short period(s) of the year on migration between breeding and non-breeding ranges.

Seasonal Occurrence Uncertain – The species is/was present, but it is not known if it is present during part or all of the year.

TERMS AND CONDITIONS OF USE

The terms and conditions of use of the Biomatrix data are the same as for the IUCN Red List of Threatened Species and are provided online at: <http://www.iucnredlist.org/info/terms-of-use>

USE CASES

The BioMatrix can be used to build a variety of global and European biodiversity models. Example use cases are given below to outline the further usage that the BioMatrix data can support.

1. Compile maps of species richness for a given set of species at a given spatial resolution (e.g. Natura2000) within a region (e.g. country). Figure 2 shows the richness of threatened species based on BioMatrix data at HydroBASIN level 8.
2. Test correlation between species richness and environmental data at a given spatial resolution (e.g. HydroSHEDS) for a given region (e.g. continent).
3. Look up the native ranges of introduced species.
4. Patterns of species richness and diversity can be understood at the catchment scale which in turn can be used to identify Key Biodiversity Areas (KBAs).

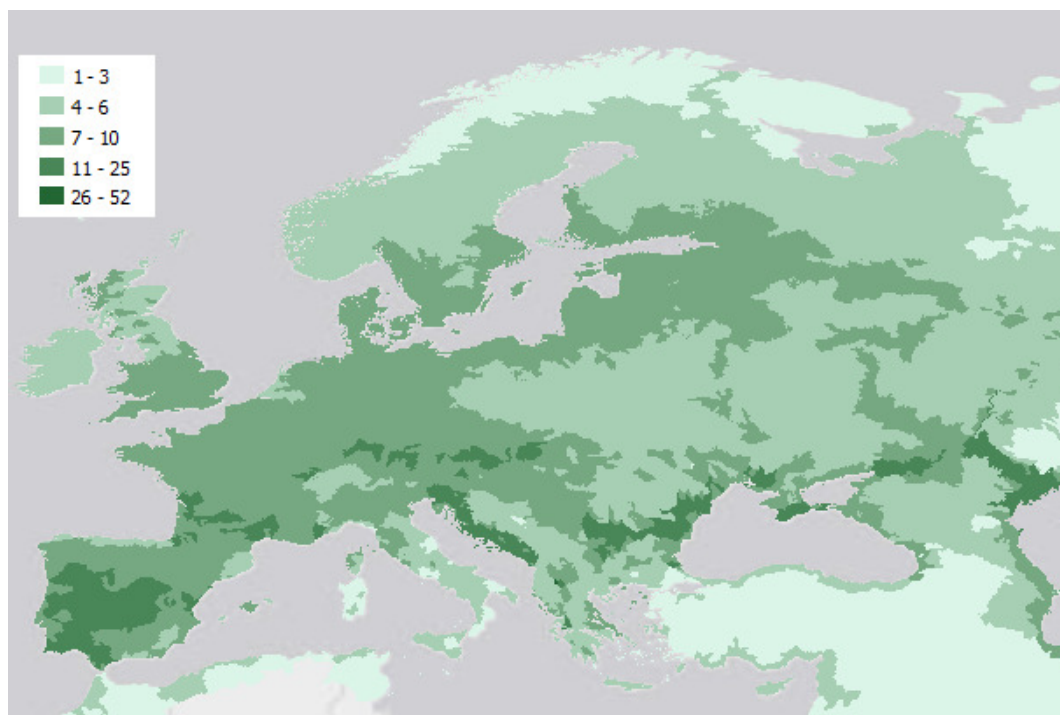


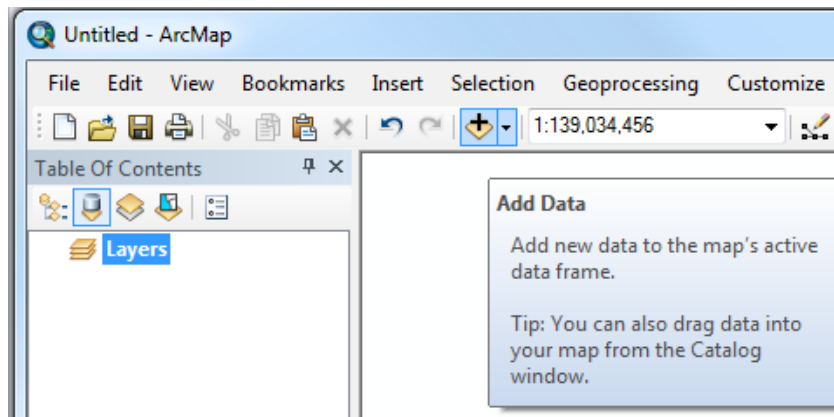
Figure 2: Map of threatened species richness for European fishes, molluscs, odonata and plants.


Joining species distribution data to HydroBASINS geometry

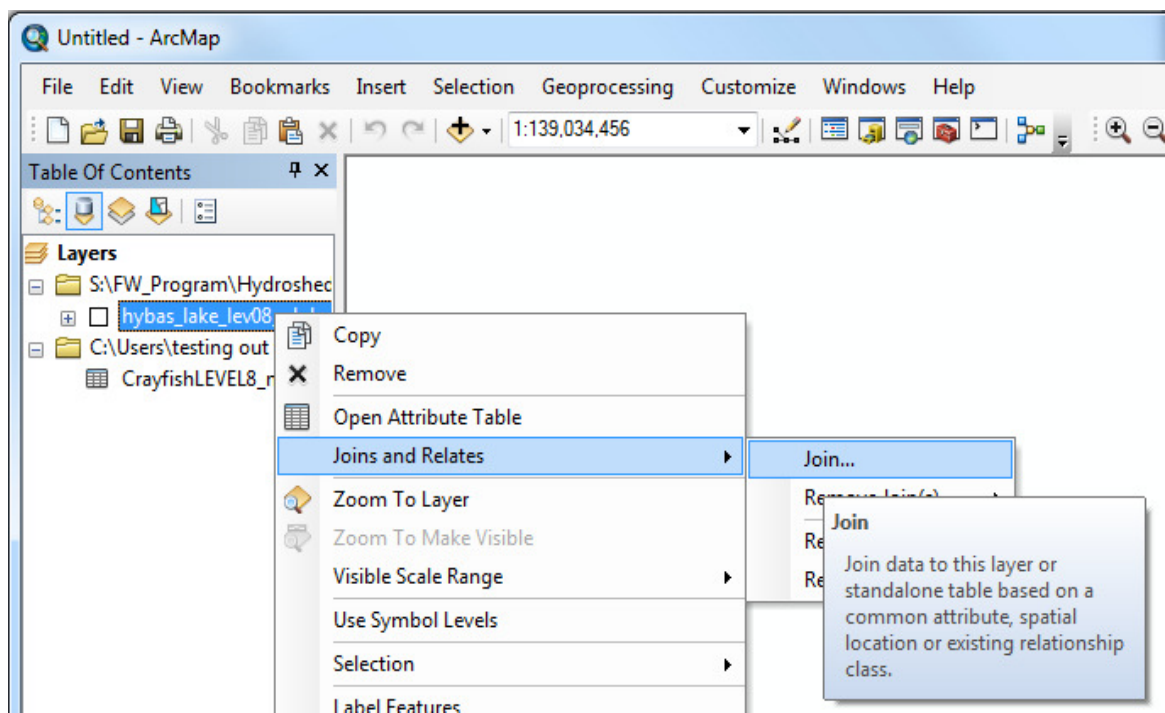
The following step-by-step example uses ArcMap 10.1 as the demonstration software but similar principles apply when using other GIS software.

1. Import species data into ArcGIS using the Add Data button.

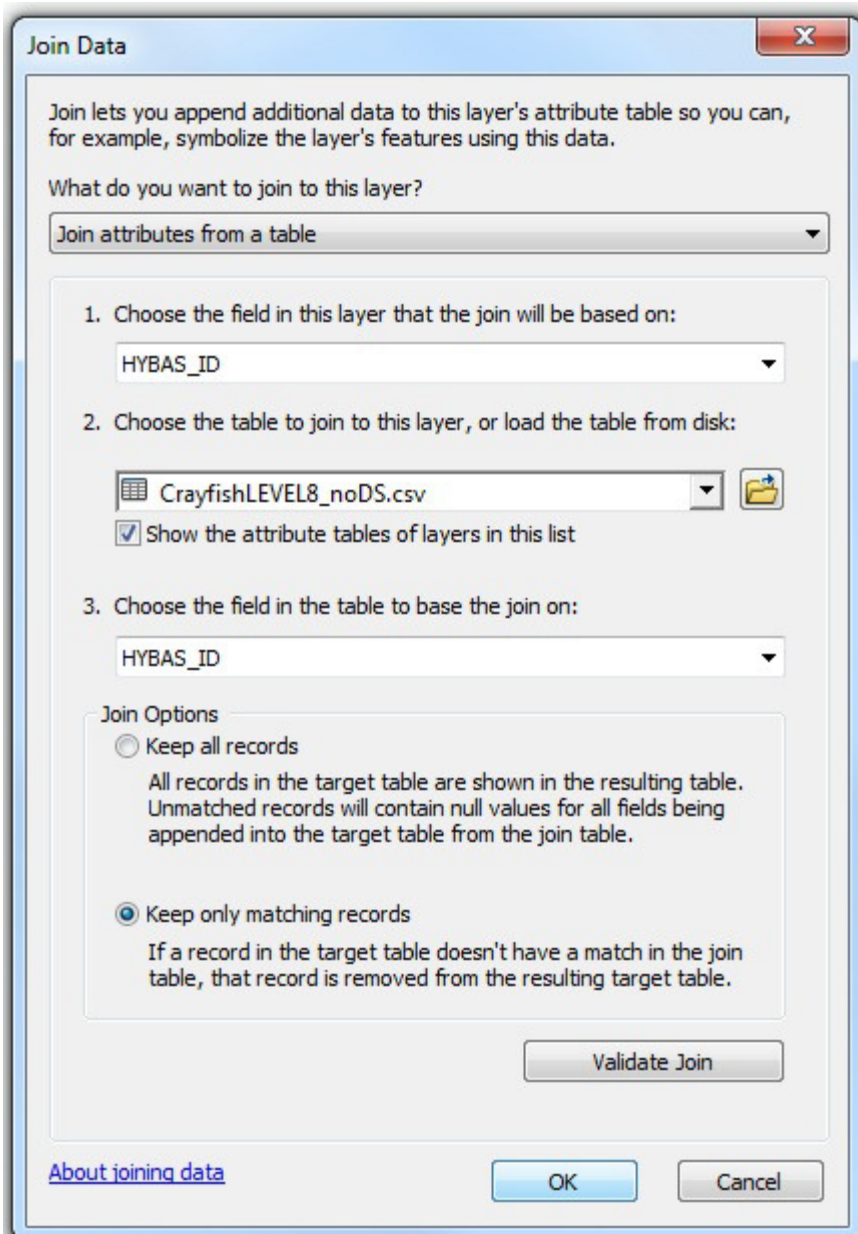




2. Import HydroBASINS data into ArcGIS using the Add Data button. 
3. Join the species data to the HydroBASINS file by right-clicking the HydroBASINS layer and selecting 'Joins and Relates' and then 'Join'.



4. Make selections as in the following screenshot but select your desired species dataset at point 2 (in this example we are joining CrayfishLEVEL8_noDS.csv), then click OK. This step may take some time to complete. Once complete, the joined data will be contained in the HydroBASINS file (in this example the hybas_lake_lev08 file).



5. After the two datasets have joined you can then run spatial analyses on the joined data or export it as a shapefile should you wish to use the joined data again at a later date

DATA SETS

Table 1 provides a list of the datasets available from the first release in March 2013. Table 2 provides a list of the datasets that will be available in the second release of data after the next Red List update in July 2013.

Table 1: Overview of the datasets in the BioMatrix.

	Taxa Group	Number of Species	Spatial resolution
European	Molluscs	680	HydroBASINS level 8 & 10
	Plants	355	HydroBASINS level 8 & 10
	Fishes	530	HydroBASINS level 8 & 10
	Odonata	139	HydroBASINS level 8 & 10
Global	Crayfish	505	HydroBASINS level 8 & 10
	Mammals	142	HydroBASINS level 8 & 10

Table 2: Overview of the datasets to be included pending publishing in the next Red List update.

	Taxa Group	Number of Species	Spatial resolution
New Zealand	Molluscs		HydroBASINS level 8 & 10
	Plants		HydroBASINS level 8 & 10
	Fishes		HydroBASINS level 8 & 10
	Odonata		HydroBASINS level 8 & 10
North America	Fishes		HydroBASINS level 8 & 10
Global	Shrimps		HydroBASINS level 8 & 10

SPECIES LISTS

European Plants

European Plant species	HydroBasin Level
<i>Agrostis canina</i>	8
<i>Agrostis stolonifera</i>	8
<i>Aldrovanda vesiculosa</i>	8
<i>Alisma gramineum</i>	8
<i>Alisma lanceolatum</i>	8
<i>Alisma plantago-aquatica</i>	8
<i>Alisma wahlenbergii</i>	8
<i>Allium schmitzii</i>	10
<i>Alopecurus aequalis</i>	8
<i>Alopecurus geniculatus</i>	8
<i>Althenia filiformis</i>	8
<i>Althenia orientalis</i>	8
<i>Anagallis crassifolia</i>	8
<i>Apium bermejoi</i>	10
<i>Apium crassipes</i>	8
<i>Apium graveolens</i>	8
<i>Apium inundatum</i>	8
<i>Apium nodiflorum</i>	8
<i>Apium repens</i>	8
<i>Arundo donax</i>	8
<i>Arundo plinii</i>	8
<i>Baldellia alpestris</i>	8
<i>Baldellia ranunculoides</i>	8
<i>Baldellia repens</i>	8
<i>Beckmannia eruciformis</i>	8
<i>Beckmannia syzigachne</i>	8
<i>Berula erecta</i>	8
<i>Bidens cernua</i>	8
<i>Bidens radiata</i>	8
<i>Bidens tripartita</i>	8
<i>Bolboschoenus glaucus</i>	8
<i>Bolboschoenus laticarpus</i>	8
<i>Bolboschoenus maritimus</i>	8
<i>Bolboschoenus planiculmis</i>	8
<i>Bolboschoenus yagara</i>	8
<i>Brachiaria eruciformis</i>	8
<i>Butomus umbellatus</i>	8
<i>Caldesia parnassifolia</i>	8

European Plant species	HydroBasin Level
<i>Calla palustris</i>	8
<i>Callitriche brutia</i>	8
<i>Callitriche cophocarpa</i>	8
<i>Callitriche cribrosa</i>	8
<i>Callitriche hermaphroditica</i>	8
<i>Callitriche lenisulca</i>	10
<i>Callitriche lusitanica</i>	8
<i>Callitriche obtusangula</i>	8
<i>Callitriche palustris</i>	8
<i>Callitriche platycarpa</i>	8
<i>Callitriche pulchra</i>	10
<i>Callitriche regis-jubae</i>	8
<i>Callitriche stagnalis</i>	8
<i>Callitriche transvolgensis</i>	10
<i>Callitriche truncata</i>	10
<i>Caltha palustris</i>	8
<i>Cardamine amara</i>	8
<i>Cardamine pratensis</i>	8
<i>Carex acuta</i>	8
<i>Carex acutiformis</i>	8
<i>Carex appropinquata</i>	8
<i>Carex aquatilis</i>	8
<i>Carex atherodes</i>	8
<i>Carex canescens</i>	8
<i>Carex chordorrhiza</i>	8
<i>Carex cretica</i>	10
<i>Carex disticha</i>	8
<i>Carex elata</i>	8
<i>Carex lasiocarpa</i>	8
<i>Carex limosa</i>	8
<i>Carex paniculata</i>	8
<i>Carex pseudocyperus</i>	8
<i>Carex recta</i>	8
<i>Carex riparia</i>	8
<i>Carex rostrata</i>	8
<i>Carex troodi</i>	8
<i>Carex vesicaria</i>	8
<i>Carum verticillatum</i>	8
<i>Catabrosa aquatica</i>	8
<i>Ceratophyllum demersum</i>	8
<i>Ceratophyllum platyacanthum</i>	10
<i>Ceratophyllum submersum</i>	8
<i>Ceratophyllum tanaiticum</i>	8
<i>Cicuta virosa</i>	8

European Plant species	HydroBasin Level
<i>Cladium mariscus</i>	8
<i>Coleanthus subtilis</i>	10
<i>Crassula aquatica</i>	8
<i>Cyperus cyprius</i>	8
<i>Cyperus difformis</i>	8
<i>Cyperus fuscus</i>	8
<i>Cyperus glaber</i>	8
<i>Cyperus glomeratus</i>	8
<i>Cyperus longus</i>	8
<i>Cyperus michelianus</i>	8
<i>Cyperus pannonicus</i>	8
<i>Cyperus serotinus</i>	8
<i>Damasonium bourgaei</i>	8
<i>Damasonium polyspermum</i>	8
<i>Elatine alsinastrum</i>	8
<i>Elatine ambigua</i>	8
<i>Elatine brochonii</i>	8
<i>Elatine gussonei</i>	8
<i>Elatine hexandra</i>	8
<i>Elatine hydropiper</i>	8
<i>Elatine macropoda</i>	8
<i>Elatine orthosperma</i>	8
<i>Elatine triandra</i>	8
<i>Eleocharis acicularis</i>	8
<i>Eleocharis austriaca</i>	8
<i>Eleocharis carniolica</i>	8
<i>Eleocharis mamillata</i>	8
<i>Eleocharis multicaulis</i>	8
<i>Eleocharis ovata</i>	8
<i>Eleocharis palustris</i>	8
<i>Eleocharis parvula</i>	8
<i>Eleocharis quinqueflora</i>	8
<i>Eleocharis uniglumis</i>	8
<i>Equisetum arvense</i>	8
<i>Equisetum fluviatile</i>	8
<i>Equisetum palustre</i>	8
<i>Eriocaulon aquaticum</i>	8
<i>Eriophorum angustifolium</i>	8
<i>Eriophorum brachyantherum</i>	8
<i>Eriophorum gracile</i>	8
<i>Eriophorum russeolum</i>	8
<i>Eriophorum scheuchzeri</i>	8
<i>Eriophorum triste</i>	8
<i>Eryngium corniculatum</i>	8

European Plant species	HydroBasin Level
<i>Eryngium galioides</i>	8
<i>Eryngium viviparum</i>	8
<i>Fimbristylis bisumbellata</i>	8
<i>Fimbristylis turkestanica</i>	10
<i>Fuirena pubescens</i>	8
<i>Glyceria declinata</i>	8
<i>Glyceria fluitans</i>	8
<i>Glyceria maxima</i>	8
<i>Glyceria nemoralis</i>	8
<i>Glyceria notata</i>	8
<i>Gratiola linifolia</i>	8
<i>Gratiola officinalis</i>	8
<i>Groenlandia densa</i>	8
<i>Heliotropium supinum</i>	8
<i>Hemarthria altissima</i>	8
<i>Hippuris tetraphylla</i>	8
<i>Hippuris vulgaris</i>	8
<i>Hottonia palustris</i>	8
<i>Hydrocharis morsus-ranae</i>	8
<i>Hydrocotyle vulgaris</i>	8
<i>Hypericum corsicum</i>	10
<i>Hypericum elodes</i>	8
<i>Ipomoea sagittata</i>	8
<i>Iris pseudacorus</i>	8
<i>Isoetes boryana</i>	10
<i>Isoetes echinospora</i>	8
<i>Isoetes fluitans</i>	10
<i>Isoetes heldreichii</i>	10
<i>Isoetes lacustris</i>	8
<i>Isoetes malinverniana</i>	10
<i>Isoetes setacea</i>	8
<i>Isoetes velata</i>	8
<i>Isolepis fluitans</i>	8
<i>Juncus acutiflorus</i>	8
<i>Juncus acutus</i>	8
<i>Juncus articulatus</i>	8
<i>Juncus bufonius</i>	8
<i>Juncus bulbosus</i>	8
<i>Juncus effusus</i>	8
<i>Juncus fontanesii</i>	8
<i>Juncus heterophyllus</i>	8
<i>Juncus subnodulosus</i>	8
<i>Juncus tenageia</i>	8
<i>Leersia oryzoides</i>	8

European Plant species	HydroBasin Level
<i>Lemna gibba</i>	8
<i>Lemna minor</i>	8
<i>Lemna trisulca</i>	8
<i>Limosella aquatica</i>	8
<i>Lindernia procumbens</i>	8
<i>Littorella uniflora</i>	8
<i>Lobelia dortmanna</i>	8
<i>Ludwigia palustris</i>	8
<i>Luronium natans</i>	10
<i>Lycopus europaeus</i>	8
<i>Lycopus exaltatus</i>	8
<i>Lysimachia dubia</i>	8
<i>Lysimachia ephemerum</i>	8
<i>Lysimachia nummularia</i>	8
<i>Lysimachia thyrsoiflora</i>	8
<i>Lysimachia vulgaris</i>	8
<i>Lythrum acutangulum</i>	8
<i>Lythrum borysthenicum</i>	8
<i>Lythrum hyssopifolia</i>	8
<i>Lythrum junceum</i>	8
<i>Lythrum portula</i>	8
<i>Lythrum salicaria</i>	8
<i>Lythrum thesioides</i>	8
<i>Lythrum thymifolia</i>	8
<i>Lythrum tribracteatum</i>	8
<i>Lythrum virgatum</i>	8
<i>Marsilea batardae</i>	10
<i>Marsilea quadrifolia</i>	8
<i>Marsilea strigosa</i>	10
<i>Mentha aquatica</i>	8
<i>Mentha pulegium</i>	8
<i>Mentha spicata</i>	8
<i>Menyanthes trifoliata</i>	8
<i>Montia fontana</i>	8
<i>Myosotis laxa</i>	8
<i>Myosotis scorpioides</i>	8
<i>Myosotis secunda</i>	8
<i>Myriophyllum alterniflorum</i>	8
<i>Myriophyllum sibiricum</i>	8
<i>Myriophyllum spicatum</i>	8
<i>Myriophyllum verticillatum</i>	8
<i>Najas flexilis</i>	8
<i>Najas marina</i>	8
<i>Najas minor</i>	8

European Plant species	HydroBasin Level
<i>Najas tenuissima</i>	8
<i>Narcissus jonquilla</i>	8
<i>Nelumbo nucifera</i>	8
<i>Nuphar lutea</i>	8
<i>Nuphar pumila</i>	8
<i>Nymphaea alba</i>	8
<i>Nymphaea candida</i>	8
<i>Nymphaea tetragona</i>	8
<i>Nymphoides peltata</i>	8
<i>Oenanthe aquatica</i>	8
<i>Oenanthe crocata</i>	8
<i>Oenanthe fistulosa</i>	8
<i>Oenanthe fluviatilis</i>	8
<i>Panicum repens</i>	8
<i>Persicaria amphibia</i>	8
<i>Persicaria foliosa</i>	10
<i>Persicaria hydropiper</i>	8
<i>Persicaria lanigera</i>	8
<i>Persicaria lapathifolia</i>	8
<i>Persicaria maculosa</i>	8
<i>Persicaria salicifolia</i>	8
<i>Phacelurus digitatus</i>	8
<i>Phalaris arundinacea</i>	8
<i>Phragmites australis</i>	8
<i>Pilularia globulifera</i>	8
<i>Pilularia minuta</i>	8
<i>Pinguicula mundi</i>	10
<i>Pinguicula vulgaris</i>	8
<i>Pleuropogon sabinei</i>	8
<i>Potamogeton acutifolius</i>	8
<i>Potamogeton alpinus</i>	8
<i>Potamogeton berchtoldii</i>	8
<i>Potamogeton coloratus</i>	8
<i>Potamogeton compressus</i>	8
<i>Potamogeton crispus</i>	8
<i>Potamogeton epihydrus</i>	10
<i>Potamogeton filiformis</i>	8
<i>Potamogeton friesii</i>	8
<i>Potamogeton gramineus</i>	8
<i>Potamogeton lucens</i>	8
<i>Potamogeton natans</i>	8
<i>Potamogeton nodosus</i>	8
<i>Potamogeton obtusifolius</i>	8
<i>Potamogeton perfoliatus</i>	8

European Plant species	HydroBasin Level
<i>Potamogeton polygonifolius</i>	8
<i>Potamogeton praelongus</i>	8
<i>Potamogeton pusillus</i>	8
<i>Potamogeton rutilus</i>	8
<i>Potamogeton sarmaticus</i>	8
<i>Potamogeton schweinfurthii</i>	8
<i>Potamogeton subsibiricus</i>	8
<i>Potamogeton trichoides</i>	8
<i>Pycnus flavescens</i>	8
<i>Pycnus mundtii</i>	8
<i>Ranunculus aquatilis</i>	8
<i>Ranunculus batrachioides</i>	8
<i>Ranunculus baudotii</i>	8
<i>Ranunculus circinatus</i>	8
<i>Ranunculus confervoides</i>	8
<i>Ranunculus flammula</i>	8
<i>Ranunculus fluitans</i>	8
<i>Ranunculus hederaceus</i>	8
<i>Ranunculus lateriflorus</i>	8
<i>Ranunculus lingua</i>	8
<i>Ranunculus omiophyllus</i>	8
<i>Ranunculus peltatus</i>	8
<i>Ranunculus penicillatus</i>	8
<i>Ranunculus repens</i>	8
<i>Ranunculus reptans</i>	8
<i>Ranunculus rionii</i>	8
<i>Ranunculus saniculifolius</i>	8
<i>Ranunculus sceleratus</i>	8
<i>Ranunculus sphaerospermus</i>	8
<i>Ranunculus trichophyllus</i>	8
<i>Ranunculus tripartitus</i>	8
<i>Rorippa amphibia</i>	8
<i>Rorippa microphylla</i>	8
<i>Rorippa nasturtium-aquaticum</i>	8
<i>Rorippa palustris</i>	8
<i>Rorippa valdes-bermejoi</i>	10
<i>Rumex hydrolapathum</i>	8
<i>Saccharum ravennae</i>	8
<i>Saccharum spontaneum</i>	8
<i>Sagittaria natans</i>	8
<i>Sagittaria sagittifolia</i>	8
<i>Samolus valerandi</i>	8
<i>Schoenoplectus corymbosus</i>	8
<i>Schoenoplectus lacustris</i>	8

European Plant species	HydroBasin Level
<i>Schoenoplectus pungens</i>	8
<i>Schoenoplectus triqueter</i>	8
<i>Scirpus sylvaticus</i>	8
<i>Scolochloa festucacea</i>	8
<i>Sium latifolium</i>	8
<i>Sparganium angustifolium</i>	8
<i>Sparganium emersum</i>	8
<i>Sparganium erectum</i>	8
<i>Sparganium glomeratum</i>	8
<i>Sparganium gramineum</i>	8
<i>Sparganium hyperboreum</i>	8
<i>Sparganium natans</i>	8
<i>Spirodela polyrhiza</i>	8
<i>Stratiotes aloides</i>	8
<i>Stuckenia pectinata</i>	8
<i>Stuckenia vaginata</i>	10
<i>Subularia aquatica</i>	8
<i>Teucrium scordium</i>	8
<i>Thorella verticillato-inundata</i>	10
<i>Trapa alatyrica</i>	8
<i>Trapa annosa</i>	8
<i>Trapa flerovii</i>	8
<i>Trapa macrorhiza</i>	8
<i>Trapa natans</i>	8
<i>Triglochin bulbosa</i>	8
<i>Typha angustifolia</i>	8
<i>Typha domingensis</i>	8
<i>Typha latifolia</i>	8
<i>Typha shuttleworthii</i>	8
<i>Urtica dioica</i>	8
<i>Urtica kioviensis</i>	10
<i>Utricularia australis</i>	8
<i>Utricularia bremii</i>	8
<i>Utricularia gibba</i>	8
<i>Utricularia intermedia</i>	8
<i>Utricularia minor</i>	8
<i>Utricularia ochroleuca</i>	8
<i>Utricularia stygia</i>	8
<i>Utricularia vulgaris</i>	8
<i>Vallisneria spiralis</i>	8
<i>Veronica anagallis-aquatica</i>	8
<i>Veronica anagalloides</i>	8
<i>Veronica beccabunga</i>	8
<i>Veronica catenata</i>	8

European Plant species	HydroBasin Level
<i>Veronica scardica</i>	8
<i>Veronica scutellata</i>	8
<i>Wolffia arrhiza</i>	8
<i>Zannichellia clausii</i>	8
<i>Zannichellia contorta</i>	10
<i>Zannichellia melitensis</i>	8
<i>Zannichellia obtusifolia</i>	10
<i>Zannichellia palustris</i>	8
<i>Zannichellia peltata</i>	8

European Molluscs

European Mollusc species	HydroBasin Level
<i>Acroloxus improvisus</i>	8
<i>Acroloxus lacustris</i>	8
<i>Acroloxus macedonicus</i>	8
<i>Acroloxus tetensi</i>	10
<i>Adriohydrobia gagatinella</i>	10
<i>Alzoniella asturica</i>	8
<i>Alzoniella braccoensis</i>	10
<i>Alzoniella cantabrica</i>	10
<i>Alzoniella cornucopia</i>	8
<i>Alzoniella delmastroi</i>	8
<i>Alzoniella edmundi</i>	10
<i>Alzoniella elliptica</i>	8
<i>Alzoniella fabrianensis</i>	8
<i>Alzoniella feneriensis</i>	8
<i>Alzoniella finalina</i>	10
<i>Alzoniella galaica</i>	8
<i>Alzoniella haicabia</i>	10
<i>Alzoniella hartwigschuetti</i>	8
<i>Alzoniella iberopyrenaica</i>	10
<i>Alzoniella junqua</i>	8
<i>Alzoniella lucensis</i>	8
<i>Alzoniella lunensis</i>	10
<i>Alzoniella macrostoma</i>	10
<i>Alzoniella manganellii</i>	10
<i>Alzoniella marianae</i>	10
<i>Alzoniella microstoma</i>	8
<i>Alzoniella montana</i>	8
<i>Alzoniella navarrensis</i>	8
<i>Alzoniella onatensis</i>	8
<i>Alzoniella ovetensis</i>	8
<i>Alzoniella pellitica</i>	8
<i>Alzoniella perrisii</i>	8
<i>Alzoniella pyrenaica</i>	8
<i>Alzoniella rolani</i>	8
<i>Alzoniella sigestra</i>	10
<i>Alzoniella slovenica</i>	8
<i>Alzoniella somiedoensis</i>	10
<i>Amphimelania holandrii</i>	8
<i>Ancylus fluviatilis</i>	8
<i>Ancylus lapicidus</i>	8
<i>Ancylus scalariformis</i>	8

European Mollusc species	HydroBasin Level
<i>Ancylus tapirulus</i>	8
<i>Anisus calculiformis</i>	8
<i>Anisus leucostoma</i>	8
<i>Anisus spirorbis</i>	8
<i>Anisus vortex</i>	8
<i>Anisus vorticulus</i>	10
<i>Anodonta anatina</i>	8
<i>Anodonta cygnea</i>	8
<i>Antibaria notata</i>	10
<i>Aplexa hypnorum</i>	8
<i>Arganiella pescei</i>	8
<i>Arganiella wolfi</i>	8
<i>Assiminea eliae</i>	8
<i>Avenionia berenguieri</i>	10
<i>Avenionia brevis</i>	8
<i>Avenionia ligustica</i>	8
<i>Avenionia parvula</i>	10
<i>Avenionia roberti</i>	8
<i>Bathyomphalus contortus</i>	8
<i>Belgrandia alcoaensis</i>	8
<i>Belgrandia bonelliana</i>	8
<i>Belgrandia boscae</i>	8
<i>Belgrandia conoidea</i>	8
<i>Belgrandia gfrast</i>	8
<i>Belgrandia gibba</i>	8
<i>Belgrandia gibberula</i>	8
<i>Belgrandia heussi</i>	10
<i>Belgrandia latina</i>	10
<i>Belgrandia lusitanica</i>	10
<i>Belgrandia mariatheresiae</i>	8
<i>Belgrandia minuscula</i>	8
<i>Belgrandia moitessieri</i>	8
<i>Belgrandia silviae</i>	8
<i>Belgrandia thermalis</i>	10
<i>Belgrandia torifera</i>	10
<i>Belgrandia varica</i>	8
<i>Belgrandiella angelovi</i>	10
<i>Belgrandiella aulaei</i>	10
<i>Belgrandiella austriana</i>	8
<i>Belgrandiella bachkovoensis</i>	10
<i>Belgrandiella boetersi</i>	10
<i>Belgrandiella bulgarica</i>	10
<i>Belgrandiella bureschi</i>	8
<i>Belgrandiella croatica</i>	10

European Mollusc species	HydroBasin Level
<i>Belgrandiella crucis</i>	10
<i>Belgrandiella dabriana</i>	8
<i>Belgrandiella dobrostanica</i>	10
<i>Belgrandiella fontinalis</i>	10
<i>Belgrandiella fuchsi</i>	8
<i>Belgrandiella ganslmayri</i>	8
<i>Belgrandiella globulosa</i>	10
<i>Belgrandiella haesitans</i>	10
<i>Belgrandiella hershleri</i>	8
<i>Belgrandiella hessei</i>	8
<i>Belgrandiella koprivnensis</i>	10
<i>Belgrandiella kreisslorum</i>	8
<i>Belgrandiella krupensis</i>	8
<i>Belgrandiella kuesteri</i>	10
<i>Belgrandiella mimula</i>	8
<i>Belgrandiella multiformis</i>	8
<i>Belgrandiella parreyssii</i>	8
<i>Belgrandiella pelerei</i>	10
<i>Belgrandiella pusilla</i>	8
<i>Belgrandiella robusta</i>	10
<i>Belgrandiella saxatilis</i>	8
<i>Belgrandiella schleschi</i>	10
<i>Belgrandiella styriaca</i>	8
<i>Belgrandiella substricta</i>	10
<i>Belgrandiella superior</i>	10
<i>Belgrandiella wawrai</i>	8
<i>Belgrandiella zagoraensis</i>	10
<i>Belgrandiella zermanica</i>	8
<i>Bithynia candiota</i>	10
<i>Bithynia cettinensis</i>	8
<i>Bithynia graeca</i>	10
<i>Bithynia hambergerae</i>	8
<i>Bithynia italica</i>	8
<i>Bithynia kastorias</i>	8
<i>Bithynia kobilkai</i>	10
<i>Bithynia leachii</i>	8
<i>Bithynia majorcina</i>	10
<i>Bithynia mostarensis</i>	8
<i>Bithynia prespensis</i>	8
<i>Bithynia quintanai</i>	10
<i>Bithynia radomani</i>	8
<i>Bithynia skadarskii</i>	8
<i>Bithynia tentaculata</i>	8
<i>Bithynia troschelii</i>	8

European Mollusc species	HydroBasin Level
<i>Bithynia zeta</i>	8
<i>Boetersiella davisii</i>	8
<i>Boetersiella sturmi</i>	8
<i>Boleana umbilicata</i>	10
<i>Borysthenia naticina</i>	8
<i>Bracenicca spiridoni</i>	8
<i>Bulinus truncatus</i>	8
<i>Bythinella angelitae</i>	10
<i>Bythinella austriaca</i>	8
<i>Bythinella badensis</i>	8
<i>Bythinella batalleri</i>	8
<i>Bythinella baudoni</i>	8
<i>Bythinella bavarica</i>	10
<i>Bythinella bicarinata</i>	8
<i>Bythinella carinulata</i>	10
<i>Bythinella cebennensis</i>	8
<i>Bythinella charpentieri</i>	8
<i>Bythinella cretensis</i>	8
<i>Bythinella cylindrica</i>	8
<i>Bythinella dacica</i>	8
<i>Bythinella drimica</i>	8
<i>Bythinella eurystoma</i>	8
<i>Bythinella eutrepha</i>	8
<i>Bythinella ferussina</i>	8
<i>Bythinella galerae</i>	8
<i>Bythinella geisserti</i>	8
<i>Bythinella ginolensis</i>	8
<i>Bythinella gloeeri</i>	8
<i>Bythinella hansboetersi</i>	8
<i>Bythinella isolata</i>	8
<i>Bythinella jourdei</i>	10
<i>Bythinella kapelana</i>	10
<i>Bythinella ligurica</i>	8
<i>Bythinella lunsensis</i>	8
<i>Bythinella magna</i>	10
<i>Bythinella markovi</i>	10
<i>Bythinella metarubra</i>	8
<i>Bythinella micherdzinskii</i>	8
<i>Bythinella molcsanyi</i>	8
<i>Bythinella opaca</i>	10
<i>Bythinella padiraci</i>	10
<i>Bythinella pannonica</i>	10
<i>Bythinella pupoides</i>	8
<i>Bythinella reyniesii</i>	8

European Mollusc species	HydroBasin Level
<i>Bythinella robiciana</i>	10
<i>Bythinella rondelaudi</i>	8
<i>Bythinella roubionensis</i>	8
<i>Bythinella rubiginosa</i>	8
<i>Bythinella rufescens</i>	8
<i>Bythinella simoniana</i>	8
<i>Bythinella troyana</i>	8
<i>Bythinella utriculus</i>	8
<i>Bythinella vesontiana</i>	8
<i>Bythinella vimperei</i>	8
<i>Bythinella viridis</i>	8
<i>Bythinella walkeri</i>	8
<i>Bythinella wawrzineki</i>	8
<i>Bythinella zyvionteki</i>	8
<i>Bythiospeum acicula</i>	8
<i>Bythiospeum alpinum</i>	8
<i>Bythiospeum articense</i>	8
<i>Bythiospeum bormanni</i>	8
<i>Bythiospeum bourguignati</i>	8
<i>Bythiospeum bressanum</i>	8
<i>Bythiospeum charpyi</i>	8
<i>Bythiospeum cisterciensorum</i>	8
<i>Bythiospeum clessini</i>	8
<i>Bythiospeum diaphanoides</i>	8
<i>Bythiospeum diaphanum</i>	8
<i>Bythiospeum dorvani</i>	8
<i>Bythiospeum drouetianum</i>	8
<i>Bythiospeum dubium</i>	10
<i>Bythiospeum elseri</i>	8
<i>Bythiospeum excelsior</i>	10
<i>Bythiospeum excessum</i>	10
<i>Bythiospeum exiguum</i>	10
<i>Bythiospeum francomontanum</i>	8
<i>Bythiospeum garnieri</i>	8
<i>Bythiospeum geyeri</i>	10
<i>Bythiospeum gonostoma</i>	10
<i>Bythiospeum haessleini</i>	10
<i>Bythiospeum heldii</i>	10
<i>Bythiospeum helveticum</i>	8
<i>Bythiospeum hungaricum</i>	10
<i>Bythiospeum husmanni</i>	8
<i>Bythiospeum klemmi</i>	8
<i>Bythiospeum labiatum</i>	10
<i>Bythiospeum lamperti</i>	10

European Mollusc species	HydroBasin Level
<i>Bythiospeum leruthi</i>	10
<i>Bythiospeum nocki</i>	10
<i>Bythiospeum noricum</i>	8
<i>Bythiospeum oshanovae</i>	10
<i>Bythiospeum pellucidum</i>	8
<i>Bythiospeum pfeifferi</i>	8
<i>Bythiospeum puerkhaueri</i>	8
<i>Bythiospeum putei</i>	10
<i>Bythiospeum quenstedti</i>	8
<i>Bythiospeum rasini</i>	8
<i>Bythiospeum reialpense</i>	8
<i>Bythiospeum rhenanum</i>	8
<i>Bythiospeum saxigenum</i>	8
<i>Bythiospeum sterkianum</i>	8
<i>Bythiospeum suevicum</i>	10
<i>Bythiospeum taxisii</i>	10
<i>Bythiospeum transsylvanica</i>	8
<i>Bythiospeum tschapecki</i>	8
<i>Bythiospeum turritum</i>	8
<i>Bythiospeum vallei</i>	8
<i>Bythiospeum waegelei</i>	8
<i>Bythiospeum wiaaiglica</i>	8
<i>Caspia knipowitchi</i>	8
<i>Caspia makarovi</i>	8
<i>Catascopeia terebra</i>	10
<i>Cavernisa zaschevi</i>	8
<i>Chilopyrgula sturanyi</i>	8
<i>Chondrobasis levantina</i>	8
<i>Clameia brooki</i>	10
<i>Congerina kusceri</i>	8
<i>Costellina turrita</i>	8
<i>Dabriana bosniaca</i>	8
<i>Dalmatella sketi</i>	8
<i>Daphniola exigua</i>	8
<i>Daphniola louisi</i>	8
<i>Dianella schlickumi</i>	10
<i>Dianella thiesseana</i>	8
<i>Dreissena blanci</i>	8
<i>Dreissena bugensis</i>	8
<i>Dreissena presbensis</i>	10
<i>Emmericia expansilabris</i>	10
<i>Emmericia patula</i>	8
<i>Emmericia ventricosa</i>	10
<i>Fagotia daudebartii</i>	8

European Mollusc species	HydroBasin Level
<i>Fagotia esperi</i>	8
<i>Falniowskia neglectissima</i>	8
<i>Fissuria boui</i>	8
<i>Fissuria planospira</i>	8
<i>Fissuria raehelei</i>	8
<i>Galba truncatula</i>	8
<i>Ginaia munda</i>	8
<i>Gocea ohridana</i>	8
<i>Graecoanatolica vegorriticola</i>	10
<i>Graecorientalia vrissiana</i>	10
<i>Graziana adlitzensis</i>	8
<i>Graziana alpestris</i>	8
<i>Graziana cezaiensis</i>	8
<i>Graziana klagenfurtensis</i>	8
<i>Graziana lacheineri</i>	10
<i>Graziana papukensis</i>	10
<i>Graziana provincialis</i>	8
<i>Graziana pupula</i>	8
<i>Graziana quadrifoglio</i>	8
<i>Graziana slavonica</i>	8
<i>Graziana trinitatis</i>	10
<i>Grossuana angeltsekovi</i>	8
<i>Grossuana euxina</i>	8
<i>Grossuana thracica</i>	8
<i>Guadiella andalucesis</i>	8
<i>Guadiella arconadae</i>	8
<i>Guadiella ramosae</i>	8
<i>Gyraulus albidus</i>	8
<i>Gyraulus albus</i>	8
<i>Gyraulus crenophilus</i>	8
<i>Gyraulus crista</i>	8
<i>Gyraulus fontinalis</i>	8
<i>Gyraulus ioanis</i>	8
<i>Gyraulus laevis</i>	8
<i>Gyraulus lychnidicus</i>	8
<i>Gyraulus meierbrooki</i>	8
<i>Gyraulus rossmaessleri</i>	10
<i>Gyraulus shasi</i>	8
<i>Gyraulus stankovici</i>	8
<i>Gyraulus trapezoides</i>	8
<i>Hadziella anti</i>	10
<i>Hadziella deminuta</i>	8
<i>Hadziella ephippiostoma</i>	8
<i>Hadziella krkae</i>	10

European Mollusc species	HydroBasin Level
<i>Hadziella rudnicae</i>	8
<i>Hadziella sketi</i>	8
<i>Haitia acuta</i>	8
<i>Hauffenia danubialis</i>	8
<i>Hauffenia edlingeri</i>	10
<i>Hauffenia jadertina</i>	8
<i>Hauffenia kerschneri</i>	8
<i>Hauffenia media</i>	10
<i>Hauffenia nesemanni</i>	8
<i>Hauffenia plana</i>	10
<i>Hauffenia subcarinata</i>	8
<i>Hauffenia subpiscinalis</i>	8
<i>Hauffenia tellinii</i>	8
<i>Hauffenia tovunica</i>	8
<i>Hauffenia wagneri</i>	8
<i>Hauffenia wienerwaldensis</i>	8
<i>Heleobia aponensis</i>	8
<i>Heleobia dobrogica</i>	8
<i>Heleobia foxianensis</i>	8
<i>Heleobia stagnorum</i>	8
<i>Heleobia tritonum</i>	8
<i>Henrigirardia wienini</i>	8
<i>Heraultiella exilis</i>	8
<i>Hippeutis complanatus</i>	8
<i>Horatia klecakiana</i>	8
<i>Horatia lucidulus</i>	10
<i>Horatia macedonica</i>	8
<i>Horatia novoselensis</i>	8
<i>Hydrobia acuta</i>	10
<i>Hydrobia glyca</i>	8
<i>Hydrobia ventrosa</i>	8
<i>Hydrobia vitrea</i>	8
<i>Iberhoratia aurorae</i>	10
<i>Iberhoratia gatoa</i>	8
<i>Iberhoratia morenoi</i>	8
<i>Iglica absoloni</i>	10
<i>Iglica acicularis</i>	8
<i>Iglica bagliviaeformis</i>	10
<i>Iglica concii</i>	8
<i>Iglica elongata</i>	8
<i>Iglica forumjuliana</i>	10
<i>Iglica gittenbergeri</i>	8
<i>Iglica giustii</i>	10
<i>Iglica gracilis</i>	10

European Mollusc species	HydroBasin Level
<i>Iglica gratulabunda</i>	8
<i>Iglica hauffeni</i>	10
<i>Iglica kleinzellensis</i>	8
<i>Iglica langhofferi</i>	8
<i>Iglica luxurians</i>	8
<i>Iglica pezzolii</i>	8
<i>Iglica sidariensis</i>	8
<i>Iglica tellinii</i>	10
<i>Iglica velkovrhi</i>	10
<i>Iglica vobarnensis</i>	8
<i>Iglica wolfischeri</i>	8
<i>Insignia macrostoma</i>	8
<i>Islamia azarum</i>	8
<i>Islamia bendidis</i>	10
<i>Islamia bomangiana</i>	8
<i>Islamia bosniaca</i>	8
<i>Islamia cianensis</i>	10
<i>Islamia epirana</i>	10
<i>Islamia gaiteri</i>	10
<i>Islamia germani</i>	8
<i>Islamia globulus</i>	8
<i>Islamia graeca</i>	10
<i>Islamia hadei</i>	10
<i>Islamia henrici</i>	8
<i>Islamia lagari</i>	8
<i>Islamia minuta</i>	8
<i>Islamia moquiniana</i>	8
<i>Islamia pallida</i>	8
<i>Islamia piristoma</i>	8
<i>Islamia pusilla</i>	8
<i>Islamia spirata</i>	8
<i>Islamia trichoniana</i>	8
<i>Islamia zermanica</i>	8
<i>Istriana mirnae</i>	10
<i>Josefus aitanica</i>	8
<i>Kerkia brezicensis</i>	8
<i>Kerkia kusceri</i>	10
<i>Lanzaia bosnica</i>	8
<i>Lanzaia elephantotus</i>	10
<i>Lanzaia kotlusae</i>	10
<i>Lanzaia rudnicae</i>	10
<i>Lanzaia skradinensis</i>	8
<i>Lanzaia vjetrenicae</i>	8
<i>Lanzaiaopsis savinica</i>	8

European Mollusc species	HydroBasin Level
<i>Leucophytia bidentata</i>	8
<i>Lithoglyphus fuscus</i>	10
<i>Lithoglyphus naticoides</i>	10
<i>Litthabitella chilodia</i>	10
<i>Lyhndia gjorgjevici</i>	8
<i>Lyhndia hadzii</i>	8
<i>Lyhndia karamani</i>	8
<i>Lyhndia stankovici</i>	8
<i>Lyhndia sublitoralis</i>	8
<i>Lymnaea stagnalis</i>	8
<i>Malaprespia albanica</i>	8
<i>Margaritifera auricularia</i>	8
<i>Margaritifera margaritifera</i>	8
<i>Marstoniopsis armoricana</i>	8
<i>Marstoniopsis croatica</i>	10
<i>Marstoniopsis insubrica</i>	8
<i>Marstoniopsis vrbasi</i>	8
<i>Melanoides tuberculatus</i>	8
<i>Melanopsis cariosa</i>	8
<i>Melanopsis etrusca</i>	10
<i>Melanopsis lorcana</i>	10
<i>Melanopsis parreyssii</i>	8
<i>Melanopsis penchinati</i>	10
<i>Melanopsis tricarinata</i>	8
<i>Mercuria anatina</i>	8
<i>Mercuria baudoniana</i>	8
<i>Mercuria bayonnensis</i>	8
<i>Mercuria meridionalis</i>	8
<i>Mercuria sarahae</i>	8
<i>Mercuria similis</i>	8
<i>Mercuria vindilica</i>	10
<i>Mercuria zopissa</i>	8
<i>Microcondylaea bonellii</i>	8
<i>Micropyrgula stankovici</i>	8
<i>Milesiana schuelei</i>	8
<i>Moitessieria calloti</i>	10
<i>Moitessieria fontsainteii</i>	8
<i>Moitessieria foui</i>	8
<i>Moitessieria guadelopensis</i>	8
<i>Moitessieria heideae</i>	8
<i>Moitessieria juvenisanguis</i>	8
<i>Moitessieria lescherae</i>	8
<i>Moitessieria lludrigaensis</i>	8
<i>Moitessieria locardi</i>	8

European Mollusc species	HydroBasin Level
<i>Moitessieria massoti</i>	8
<i>Moitessieria mugae</i>	8
<i>Moitessieria nezi</i>	8
<i>Moitessieria oleri</i>	8
<i>Moitessieria rolandiana</i>	8
<i>Moitessieria simoniana</i>	8
<i>Musculium lacustre</i>	8
<i>Myosotella denticulata</i>	8
<i>Myxas glutinosa</i>	10
<i>Narentiana albida</i>	10
<i>Narentiana vjetrenicae</i>	10
<i>Neofossarulus stankovici</i>	8
<i>Ochridopyrgula macedonica</i>	8
<i>Ohridohauffenia depressa</i>	8
<i>Ohridohauffenia minuta</i>	8
<i>Ohridohauffenia rotonda</i>	8
<i>Ohridohauffenia sanctinaumi</i>	8
<i>Ohridohauffenia sublitoralis</i>	8
<i>Ohridohoratia carinata</i>	8
<i>Ohridohoratia polinskii</i>	8
<i>Ohridohoratia pygmaea</i>	8
<i>Ohridohoratia sturanyi</i>	8
<i>Ohrigocea karevi</i>	8
<i>Ohrigocea miladinovororum</i>	8
<i>Ohrigocea ornata</i>	8
<i>Ohrigocea samuili</i>	8
<i>Ohrigocea stankovici</i>	8
<i>Omphiscola glabra</i>	8
<i>Palacanthiopsis margritae</i>	8
<i>Palacanthiopsis vervierii</i>	8
<i>Paladilhia conica</i>	8
<i>Paladilhia gloeri</i>	8
<i>Paladilhia jamlussensis</i>	10
<i>Paladilhia pleurotoma</i>	8
<i>Paladilhia pontmartiniana</i>	8
<i>Paladilhia roselloi</i>	8
<i>Paladilhia umbilicata</i>	8
<i>Paladilhioopsis buresi</i>	8
<i>Paladilhioopsis grobbeni</i>	10
<i>Paladilhioopsis janinensis</i>	10
<i>Paladilhioopsis neaAugustensis</i>	8
<i>Paladilhioopsis pretneri</i>	10
<i>Paladilhioopsis robiciana</i>	8
<i>Paladilhioopsis serbica</i>	10

European Mollusc species	HydroBasin Level
<i>Paladilhopsis solida</i>	8
<i>Paladilhopsis thessalica</i>	8
<i>Paladilhopsis virei</i>	8
<i>Palaospeum bessoni</i>	8
<i>Palaospeum nanum</i>	8
<i>Parabythinella graeca</i>	10
<i>Parabythinella macedonica</i>	10
<i>Parabythinella malaprespensis</i>	10
<i>Pauluccinella minima</i>	8
<i>Peringia ulvae</i>	8
<i>Pezzolia radapalladis</i>	10
<i>Phreatica bolei</i>	10
<i>Physa fontinalis</i>	8
<i>Pisidium amnicum</i>	8
<i>Pisidium annandalei</i>	8
<i>Pisidium casertanum</i>	8
<i>Pisidium conventus</i>	8
<i>Pisidium edlaueri</i>	8
<i>Pisidium globulare</i>	8
<i>Pisidium henslowanum</i>	8
<i>Pisidium hibernicum</i>	8
<i>Pisidium hinzi</i>	8
<i>Pisidium lilleborgii</i>	8
<i>Pisidium maasseni</i>	10
<i>Pisidium milium</i>	8
<i>Pisidium moitessierianum</i>	8
<i>Pisidium nitidum</i>	8
<i>Pisidium obtusale</i>	8
<i>Pisidium personatum</i>	8
<i>Pisidium pseudosphaerium</i>	8
<i>Pisidium pulchellum</i>	8
<i>Pisidium subtruncatum</i>	8
<i>Pisidium supinum</i>	8
<i>Pisidium tenuilineatum</i>	8
<i>Pisidium waldeni</i>	10
<i>Plagigeyeria deformata</i>	8
<i>Plagigeyeria gladilini</i>	10
<i>Plagigeyeria montenigrina</i>	8
<i>Plagigeyeria mostarensis</i>	10
<i>Plagigeyeria stochi</i>	10
<i>Plagigeyeria tribunicae</i>	8
<i>Plagigeyeria zetaprotogona</i>	8
<i>Planorbarius corneus</i>	8
<i>Planorbis atticus</i>	10

European Mollusc species	HydroBasin Level
<i>Planorbis carinatus</i>	8
<i>Planorbis macedonicus</i>	8
<i>Planorbis moquini</i>	8
<i>Planorbis planorbis</i>	8
<i>Planorbis presbensis</i>	8
<i>Plesiella navarrensis</i>	8
<i>Pontobelgrandiella nitida</i>	10
<i>Potomida littoralis</i>	8
<i>Prespolitorea malaprespensis</i>	8
<i>Prespolitorea valvataeformis</i>	8
<i>Pseudamnicola bacescui</i>	10
<i>Pseudamnicola chia</i>	10
<i>Pseudamnicola conovula</i>	10
<i>Pseudamnicola exilis</i>	8
<i>Pseudamnicola falkneri</i>	8
<i>Pseudamnicola gasulli</i>	8
<i>Pseudamnicola hydrobiopsis</i>	8
<i>Pseudamnicola leontina</i>	8
<i>Pseudamnicola lucensis</i>	8
<i>Pseudamnicola macrostoma</i>	10
<i>Pseudamnicola malickyi</i>	10
<i>Pseudamnicola moussonii</i>	10
<i>Pseudamnicola pieperi</i>	10
<i>Pseudamnicola pisolinus</i>	8
<i>Pseudamnicola spirata</i>	8
<i>Pseudamnicola troglobia</i>	8
<i>Pseudanodonta complanata</i>	8
<i>Pseudavenionia pedemontana</i>	8
<i>Pseudobithynia ambrakis</i>	10
<i>Pseudobithynia euboeensis</i>	10
<i>Pseudobithynia falniowskii</i>	8
<i>Pseudobithynia kirka</i>	8
<i>Pseudobithynia panetolis</i>	8
<i>Pseudobithynia trichonis</i>	8
<i>Pseudobithynia westerlundii</i>	10
<i>Pseudohoratia brusinae</i>	8
<i>Pseudohoratia lacustris</i>	8
<i>Pseudohoratia ochridana</i>	8
<i>Pseudoislamia balcanica</i>	8
<i>Pyrgohydrobia grochmalickii</i>	8
<i>Pyrgohydrobia jablanicensis</i>	8
<i>Pyrgohydrobia prespaensis</i>	8
<i>Pyrgohydrobia sanctinaumi</i>	8
<i>Pyrgula annulata</i>	10

European Mollusc species	HydroBasin Level
<i>Radix ampla</i>	10
<i>Radix auricularia</i>	8
<i>Radix balthica</i>	8
<i>Radix labiata</i>	8
<i>Radix pinteri</i>	8
<i>Radix relicta</i>	8
<i>Radix skutaris</i>	8
<i>Radomaniola albanica</i>	8
<i>Radomaniola callosa</i>	10
<i>Radomaniola curta</i>	10
<i>Radomaniola elongata</i>	8
<i>Radomaniola lacustris</i>	8
<i>Radomaniola montana</i>	8
<i>Radomaniola rhodopensis</i>	10
<i>Sadleriana cavernosa</i>	10
<i>Sadleriana fluminensis</i>	10
<i>Sadleriana sadleriana</i>	10
<i>Sadleriana schmidtii</i>	10
<i>Sadleriana supercarinata</i>	10
<i>Salenthydrobia ferrerii</i>	10
<i>Sardohoratia islamioides</i>	10
<i>Sardohoratia sulcata</i>	8
<i>Sardopaladilhia plagigeyeric</i>	10
<i>Saxurinator brandti</i>	10
<i>Saxurinator labiatus</i>	10
<i>Saxurinator montenegrinus</i>	10
<i>Saxurinator orthodoxus</i>	8
<i>Saxurinator sketi</i>	8
<i>Segmentina nitida</i>	8
<i>Spathogyna fezi</i>	8
<i>Sphaerium corneum</i>	8
<i>Sphaerium nucleus</i>	8
<i>Sphaerium ovale</i>	8
<i>Sphaerium rivicola</i>	8
<i>Sphaerium solidum</i>	8
<i>Spiralix affinitatis</i>	10
<i>Spiralix burgensis</i>	8
<i>Spiralix collieri</i>	8
<i>Spiralix corsica</i>	8
<i>Spiralix gloriae</i>	10
<i>Spiralix hofmanni</i>	8
<i>Spiralix pequenoensis</i>	8
<i>Spiralix rayi</i>	8
<i>Spiralix valenciana</i>	8

European Mollusc species	HydroBasin Level
<i>Spiralix vitrea</i>	8
<i>Stagnicola corvus</i>	8
<i>Stagnicola fuscus</i>	10
<i>Stagnicola montenegrinus</i>	8
<i>Stagnicola palustris</i>	8
<i>Stagnicola turricula</i>	8
<i>Stankovicia baicaliiformis</i>	8
<i>Stankovicia pavlovici</i>	8
<i>Stankovicia wagneri</i>	8
<i>Strugia ohridana</i>	8
<i>Tanousia zrmanjæ</i>	10
<i>Tarraconia gasulli</i>	10
<i>Tarraconia rolani</i>	10
<i>Terranigra kosovica</i>	8
<i>Theodoxus anatolicus</i>	8
<i>Theodoxus baeticus</i>	8
<i>Theodoxus danubialis</i>	8
<i>Theodoxus euxinus</i>	10
<i>Theodoxus fluviatilis</i>	8
<i>Theodoxus meridionalis</i>	10
<i>Theodoxus prevostianus</i>	8
<i>Theodoxus subterrelictus</i>	8
<i>Theodoxus transversalis</i>	10
<i>Theodoxus valentinus</i>	10
<i>Theodoxus varius</i>	10
<i>Trachyochridia filocincta</i>	8
<i>Trichonia trichonica</i>	10
<i>Turcorientalia hohenackeri</i>	10
<i>Turcorientalia seminula</i>	8
<i>Turricaspia chersonica</i>	8
<i>Turricaspia ismailensis</i>	8
<i>Turricaspia lincta</i>	8
<i>Turricaspia lindholmiana</i>	8
<i>Unio crassus</i>	8
<i>Unio delphinus</i>	8
<i>Unio gibbus</i>	8
<i>Unio mancus</i>	8
<i>Unio pictorum</i>	8
<i>Unio tumidiformis</i>	8
<i>Unio tumidus</i>	8
<i>Valvata cristata</i>	8
<i>Valvata hirsutecostata</i>	8
<i>Valvata klemmi</i>	8
<i>Valvata macrostoma</i>	10

European Mollusc species	HydroBasin Level
<i>Valvata montenegrina</i>	8
<i>Valvata piscinalis</i>	8
<i>Valvata relicta</i>	8
<i>Valvata rhabdota</i>	8
<i>Valvata saulcyi</i>	10
<i>Valvata stenotrema</i>	8
<i>Valvata studeri</i>	8
<i>Vinodolia fiumana</i>	10
<i>Vinodolia fluviatilis</i>	10
<i>Vinodolia gluhodolica</i>	8
<i>Vinodolia hadouphylax</i>	8
<i>Vinodolia lacustris</i>	8
<i>Vinodolia matjasici</i>	8
<i>Vinodolia scutarica</i>	8
<i>Vinodolia vidrovani</i>	10
<i>Viviparus acerosus</i>	8
<i>Viviparus ater</i>	8
<i>Viviparus contectus</i>	8
<i>Viviparus mamillatus</i>	10
<i>Viviparus viviparus</i>	8
<i>Xestopyrgula dybowskii</i>	8
<i>Zaunia kusceri</i>	8
<i>Zaunia sanctizaumi</i>	8

European Odonata

European Odonata species	HydroBasin Level
<i>Aeshna affinis</i>	8
<i>Aeshna caerulea</i>	8
<i>Aeshna crenata</i>	8
<i>Aeshna cyanea</i>	8
<i>Aeshna grandis</i>	8
<i>Aeshna isoceles</i>	8
<i>Aeshna juncea</i>	8
<i>Aeshna mixta</i>	8
<i>Aeshna serrata</i>	8
<i>Aeshna subarctica ssp elisabethae</i>	8
<i>Aeshna viridis</i>	8
<i>Anax ephippiger</i>	8
<i>Anax immaculifrons</i>	10
<i>Anax imperator</i>	8
<i>Anax junius</i>	8
<i>Anax parthenope</i>	8
<i>Boyeria cretensis</i>	8
<i>Boyeria irene</i>	8
<i>Brachythemis leucosticta</i>	8
<i>Brachytron pratense</i>	8
<i>Caliaeschna microstigma</i>	8
<i>Calopteryx haemorrhoidalis</i>	8
<i>Calopteryx splendens</i>	8
<i>Calopteryx virgo</i>	8
<i>Calopteryx xanthostoma</i>	8
<i>Ceriagrion georgifreyi</i>	10
<i>Ceriagrion tenellum</i>	8
<i>Coenagrion armatum</i>	8
<i>Coenagrion caerulescens</i>	8
<i>Coenagrion ecornutum</i>	8
<i>Coenagrion hastulatum</i>	8
<i>Coenagrion hylas</i>	8
<i>Coenagrion intermedium</i>	8
<i>Coenagrion johanssoni</i>	8
<i>Coenagrion lunulatum</i>	8
<i>Coenagrion mercuriale</i>	8
<i>Coenagrion ornatum</i>	8
<i>Coenagrion puella</i>	8
<i>Coenagrion pulchellum</i>	8
<i>Coenagrion scitulum</i>	8
<i>Cordulegaster bidentata</i>	8

European Odonata species	HydroBasin Level
<i>Cordulegaster boltonii</i>	8
<i>Cordulegaster helladica ssp buchholzi</i>	8
<i>Cordulegaster helladica ssp helladica</i>	10
<i>Cordulegaster helladica ssp kastalia</i>	10
<i>Cordulegaster heros</i>	8
<i>Cordulegaster insignis ssp insignis</i>	8
<i>Cordulegaster picta</i>	10
<i>Cordulegaster trinacriae</i>	8
<i>Cordulia aenea</i>	8
<i>Crocothemis erythraea</i>	8
<i>Diplacodes lefebvrei</i>	8
<i>Enallagma cyathigerum</i>	8
<i>Epallage fatime</i>	8
<i>Epithea bimaculata</i>	8
<i>Erythromma lindenii</i>	8
<i>Erythromma najas</i>	8
<i>Erythromma viridulum</i>	8
<i>Gomphus flavipes</i>	8
<i>Gomphus graslinii</i>	8
<i>Gomphus pulchellus</i>	8
<i>Gomphus schneiderii</i>	8
<i>Gomphus simillimus</i>	8
<i>Gomphus vulgatissimus</i>	8
<i>Ischnura elegans</i>	8
<i>Ischnura fontaineae</i>	8
<i>Ischnura genei</i>	8
<i>Ischnura graellsii</i>	8
<i>Ischnura pumilio</i>	8
<i>Ischnura saharensis</i>	8
<i>Lestes barbarus</i>	8
<i>Lestes dryas</i>	8
<i>Lestes macrostigma</i>	10
<i>Lestes parvidens</i>	8
<i>Lestes sponsa</i>	8
<i>Lestes virens</i>	8
<i>Lestes viridis</i>	8
<i>Leucorrhinia albifrons</i>	8
<i>Leucorrhinia caudalis</i>	10
<i>Leucorrhinia dubia</i>	8
<i>Leucorrhinia pectoralis</i>	8
<i>Leucorrhinia rubicunda</i>	8
<i>Libellula depressa</i>	8
<i>Libellula fulva</i>	8
<i>Libellula quadrimaculata</i>	8

European Odonata species	HydroBasin Level
<i>Lindenia tetraphylla</i>	10
<i>Macromia splendens</i>	10
<i>Nehalennia speciosa</i>	8
<i>Onychogomphus costae</i>	8
<i>Onychogomphus forcipatus ssp albotibialis</i>	8
<i>Onychogomphus forcipatus ssp forcipatus</i>	8
<i>Onychogomphus forcipatus ssp unguiculatus</i>	8
<i>Onychogomphus uncatus</i>	10
<i>Ophiogomphus cecilia</i>	8
<i>Orthetrum albistylum</i>	8
<i>Orthetrum brunneum</i>	8
<i>Orthetrum cancellatum</i>	8
<i>Orthetrum chrysostigma</i>	8
<i>Orthetrum coerulescens</i>	8
<i>Orthetrum nitidinerve</i>	8
<i>Orthetrum sabina</i>	8
<i>Orthetrum taeniolatum</i>	8
<i>Orthetrum trinacria</i>	8
<i>Oxygastra curtisii</i>	8
<i>Pantala flavescens</i>	10
<i>Paragomphus genei</i>	8
<i>Platycnemis acutipennis</i>	8
<i>Platycnemis latipes</i>	8
<i>Platycnemis pennipes</i>	8
<i>Platycnemis subdilatata</i>	8
<i>Pyrrhosoma elisabethae</i>	10
<i>Pyrrhosoma nymphula</i>	8
<i>Selysiothemis nigra</i>	10
<i>Somatochlora alpestris</i>	8
<i>Somatochlora arctica</i>	8
<i>Somatochlora borisi</i>	10
<i>Somatochlora flavomaculata</i>	8
<i>Somatochlora graeseri</i>	8
<i>Somatochlora meridionalis</i>	8
<i>Somatochlora metallica</i>	8
<i>Somatochlora sahlbergi</i>	10
<i>Sympetma fusca</i>	8
<i>Sympetma paedisca</i>	8
<i>Sympetrum danae</i>	8
<i>Sympetrum depressiusculum</i>	10
<i>Sympetrum flaveolum</i>	8
<i>Sympetrum fonscolombii</i>	8
<i>Sympetrum meridionale</i>	8
<i>Sympetrum nigrifemur</i>	8

European Odonata species	HydroBasin Level
<i>Sympetrum pedemontanum</i>	8
<i>Sympetrum sanguineum</i>	8
<i>Sympetrum sinaiticum</i>	8
<i>Sympetrum striolatum</i>	8
<i>Sympetrum vulgatum</i>	8
<i>Trithemis annulata</i>	8
<i>Trithemis arteriosa</i>	10
<i>Trithemis festiva</i>	10
<i>Trithemis kirbyi</i>	8
<i>Zygonyx torridus</i>	10

European Fishes

European Fish species	HydroBasin Level
<i>Abramis brama</i>	8
<i>Achondrostoma arcasii</i>	8
<i>Achondrostoma occidentale</i>	10
<i>Achondrostoma oligolepis</i>	10
<i>Achondrostoma salmantinum</i>	8
<i>Acipenser gueldenstaedtii</i>	10
<i>Acipenser naccarii</i>	10
<i>Acipenser nudiventris</i>	10
<i>Acipenser persicus</i>	10
<i>Acipenser ruthenus</i>	8
<i>Acipenser stellatus</i>	10
<i>Acipenser sturio</i>	10
<i>Alburnoides bipunctatus</i>	8
<i>Alburnoides eichwaldii</i>	10
<i>Alburnoides gmelini</i>	8
<i>Alburnoides kubanicus</i>	8
<i>Alburnoides maculatus</i>	8
<i>Alburnoides ohridanus</i>	10
<i>Alburnoides prespensis</i>	8
<i>Alburnoides rossicus</i>	8
<i>Alburnus albidus</i>	10
<i>Alburnus alburnus</i>	8
<i>Alburnus arborella</i>	8
<i>Alburnus belvica</i>	8
<i>Alburnus chalcoides</i>	10
<i>Alburnus hohenackeri</i>	10
<i>Alburnus istanbulensis</i>	10
<i>Alburnus leobergi</i>	8
<i>Alburnus macedonicus</i>	10
<i>Alburnus mandrensis</i>	10
<i>Alburnus mento</i>	10
<i>Alburnus mentoides</i>	10
<i>Alburnus neretvae</i>	10
<i>Alburnus sarmaticus</i>	10
<i>Alburnus schischkovi</i>	10
<i>Alburnus scoranza</i>	10
<i>Alburnus sp. nov. 'Volvi'</i>	10
<i>Alburnus thessalicus</i>	8
<i>Alburnus vistonius</i>	10
<i>Alburnus volviticus</i>	10
<i>Alosa agone</i>	10

European Fish species	HydroBasin Level
<i>Alosa algeriensis</i>	8
<i>Alosa alosa</i>	10
<i>Alosa caspia</i>	10
<i>Alosa fallax</i>	10
<i>Alosa immaculata</i>	10
<i>Alosa kessleri</i>	10
<i>Alosa killarnensis</i>	8
<i>Alosa macedonica</i>	8
<i>Alosa maeotica</i>	10
<i>Alosa sp. nov. 'Skadar'</i>	8
<i>Alosa tanaica</i>	10
<i>Alosa vistonica</i>	10
<i>Alosa volgensis</i>	10
<i>Anaecypris hispanica</i>	8
<i>Anguilla anguilla</i>	10
<i>Aphanius almirensis</i>	10
<i>Aphanius baeticus</i>	10
<i>Aphanius fasciatus</i>	10
<i>Aphanius iberus</i>	10
<i>Aspius aspius</i>	8
<i>Atherina boyeri</i>	10
<i>Aulopyge huegeli</i>	10
<i>Babka gymnotrachelus</i>	10
<i>Ballerus ballerus</i>	8
<i>Ballerus sapa</i>	8
<i>Barbatula barbatula</i>	8
<i>Barbatula quignardi</i>	8
<i>Barbatula sturanyi</i>	10
<i>Barbatula zetensis</i>	10
<i>Barbus balcanicus</i>	8
<i>Barbus barbus</i>	8
<i>Barbus bergi</i>	8
<i>Barbus caninus</i>	8
<i>Barbus carpathicus</i>	10
<i>Barbus ciscaucasicus</i>	10
<i>Barbus cyclolepis</i>	8
<i>Barbus euboicus</i>	10
<i>Barbus haasi</i>	8
<i>Barbus kubanicus</i>	8
<i>Barbus macedonicus</i>	10
<i>Barbus meridionalis</i>	10
<i>Barbus peloponnesius</i>	10
<i>Barbus pergamonensis</i>	10
<i>Barbus petenyi</i>	8

European Fish species	HydroBasin Level
<i>Barbus plebejus</i>	8
<i>Barbus prespensis</i>	8
<i>Barbus rebeli</i>	10
<i>Barbus sperchiensis</i>	10
<i>Barbus strumicae</i>	10
<i>Barbus tauricus</i>	10
<i>Barbus tyberinus</i>	10
<i>Barbus waleckii</i>	8
<i>Benthophiloides brauneri</i>	10
<i>Benthophilus durrelli</i>	10
<i>Benthophilus granulatus</i>	10
<i>Benthophilus leobergius</i>	10
<i>Benthophilus macrocephalus</i>	10
<i>Benthophilus magistri</i>	10
<i>Benthophilus mahmudbejovi</i>	8
<i>Benthophilus nudus</i>	10
<i>Benthophilus stellatus</i>	10
<i>Blicca bjoerkna</i>	8
<i>Carassius carassius</i>	8
<i>Caspiomyzon wagneri</i>	10
<i>Caspiosoma caspium</i>	10
<i>Chelon labrosus</i>	10
<i>Chondrostoma knerii</i>	10
<i>Chondrostoma kubanicum</i>	8
<i>Chondrostoma nasus</i>	8
<i>Chondrostoma oxyrhynchum</i>	10
<i>Chondrostoma phoxinus</i>	10
<i>Chondrostoma prespense</i>	8
<i>Chondrostoma scodrense</i>	10
<i>Chondrostoma soetta</i>	8
<i>Chondrostoma vardareense</i>	8
<i>Chondrostoma variable</i>	8
<i>Clupeonella abrau</i>	10
<i>Clupeonella caspia</i>	8
<i>Clupeonella cultriventris</i>	10
<i>Clupeonella tscharchalensis</i>	10
<i>Cobitis arachthosensis</i>	10
<i>Cobitis bilineata</i>	8
<i>Cobitis calderoni</i>	8
<i>Cobitis dalmatina</i>	10
<i>Cobitis elongata</i>	8
<i>Cobitis elongatoides</i>	8
<i>Cobitis hellenica</i>	10
<i>Cobitis illyrica</i>	10

European Fish species	HydroBasin Level
<i>Cobitis jadovensis</i>	10
<i>Cobitis melanoleuca</i>	8
<i>Cobitis meridionalis</i>	8
<i>Cobitis narentana</i>	10
<i>Cobitis ohridana</i>	10
<i>Cobitis paludica</i>	8
<i>Cobitis pontica</i>	10
<i>Cobitis puncticulata</i>	10
<i>Cobitis punctilineata</i>	10
<i>Cobitis stephanidisi</i>	10
<i>Cobitis strumicae</i>	8
<i>Cobitis taenia</i>	8
<i>Cobitis tanaitica</i>	8
<i>Cobitis taurica</i>	10
<i>Cobitis trichonica</i>	8
<i>Cobitis vardarensis</i>	8
<i>Cobitis vettonica</i>	8
<i>Cobitis zanandreae</i>	8
<i>Coregonus albellus</i>	10
<i>Coregonus albula</i>	8
<i>Coregonus alpinus</i>	10
<i>Coregonus arenicolus</i>	10
<i>Coregonus atterensis</i>	10
<i>Coregonus autumnalis</i>	8
<i>Coregonus baerii</i>	10
<i>Coregonus bavaricus</i>	10
<i>Coregonus bezola</i>	8
<i>Coregonus candidus</i>	10
<i>Coregonus clupeoides</i>	10
<i>Coregonus confusus</i>	10
<i>Coregonus danneri</i>	8
<i>Coregonus fatioi</i>	10
<i>Coregonus fera</i>	10
<i>Coregonus fontanae</i>	10
<i>Coregonus gutturosus</i>	10
<i>Coregonus heglingus</i>	10
<i>Coregonus hiemalis</i>	10
<i>Coregonus hoferi</i>	10
<i>Coregonus ladogae</i>	8
<i>Coregonus lavaretus</i>	10
<i>Coregonus lucinensis</i>	10
<i>Coregonus lutokka</i>	8
<i>Coregonus macrophthalmus</i>	10
<i>Coregonus maraena</i>	10

European Fish species	HydroBasin Level
<i>Coregonus maxillaris</i>	10
<i>Coregonus megalops</i>	10
<i>Coregonus muksun</i>	8
<i>Coregonus nasus</i>	8
<i>Coregonus nilssonii</i>	8
<i>Coregonus nobilis</i>	10
<i>Coregonus oxyrinchus</i>	10
<i>Coregonus palaea</i>	10
<i>Coregonus pallasii</i>	10
<i>Coregonus peled</i>	8
<i>Coregonus pennantii</i>	10
<i>Coregonus pidschian</i>	8
<i>Coregonus pollan</i>	10
<i>Coregonus renke</i>	10
<i>Coregonus restrictus</i>	10
<i>Coregonus sardinella</i>	8
<i>Coregonus stigmaticus</i>	8
<i>Coregonus suidteri</i>	10
<i>Coregonus trybomi</i>	10
<i>Coregonus vandesius</i>	10
<i>Coregonus vessicus</i>	10
<i>Coregonus wartmanni</i>	10
<i>Coregonus widegreni</i>	10
<i>Coregonus zuerichensis</i>	10
<i>Coregonus zugensis</i>	10
<i>Cottus aturi</i>	8
<i>Cottus duranii</i>	8
<i>Cottus gobio</i>	8
<i>Cottus haemusii</i>	8
<i>Cottus hispaniolensis</i>	8
<i>Cottus koshewnikowi</i>	8
<i>Cottus metae</i>	10
<i>Cottus microstomus</i>	8
<i>Cottus perifretum</i>	10
<i>Cottus petiti</i>	8
<i>Cottus poecilopus</i>	8
<i>Cottus rhenanus</i>	10
<i>Cottus rondeleti</i>	10
<i>Cottus scaturigo</i>	10
<i>Cottus transsilvaniae</i>	8
<i>Cyprinus carpio</i>	8
<i>Delminichthys adspersus</i>	10
<i>Delminichthys ghetaldii</i>	10
<i>Delminichthys jadovensis</i>	10

European Fish species	HydroBasin Level
<i>Delminichthys krbavensis</i>	10
<i>Dicentrarchus labrax</i>	10
<i>Economidichthys pygmaeus</i>	8
<i>Economidichthys trichonis</i>	10
<i>Esox lucius</i>	8
<i>Eudontomyzon danfordi</i>	8
<i>Eudontomyzon hellenicus</i>	8
<i>Eudontomyzon mariae</i>	8
<i>Eudontomyzon sp. nov. 'migratory'</i>	10
<i>Eudontomyzon stankokaramani</i>	10
<i>Eudontomyzon vladykovi</i>	8
<i>Gasterosteus aculeatus</i>	10
<i>Gasterosteus crenobiontus</i>	10
<i>Gasterosteus gymnurus</i>	8
<i>Gasterosteus islandicus</i>	8
<i>Gobio alverniae</i>	10
<i>Gobio brevicirris</i>	8
<i>Gobio bulgaricus</i>	8
<i>Gobio carpathicus</i>	8
<i>Gobio delyamurei</i>	10
<i>Gobio feraeensis</i>	8
<i>Gobio gobio</i>	8
<i>Gobio holurus</i>	8
<i>Gobio kovatschevi</i>	8
<i>Gobio krymensis</i>	10
<i>Gobio kubanicus</i>	10
<i>Gobio lozanoi</i>	8
<i>Gobio obtusirostris</i>	8
<i>Gobio occitaniae</i>	8
<i>Gobio ohridanus</i>	10
<i>Gobio sarmaticus</i>	8
<i>Gobio skadarensis</i>	10
<i>Gobio volgensis</i>	8
<i>Gymnocephalus acerina</i>	8
<i>Gymnocephalus ambriaelacus</i>	10
<i>Gymnocephalus baloni</i>	10
<i>Gymnocephalus cernua</i>	8
<i>Gymnocephalus schraetser</i>	10
<i>Hucho hucho</i>	10
<i>Huso huso</i>	10
<i>Hypomesus olidus</i>	8
<i>Iberochondrostoma almacai</i>	10
<i>Iberochondrostoma lemmingii</i>	8
<i>Iberochondrostoma lusitanicus</i>	10

European Fish species	HydroBasin Level
<i>Iberochondrostoma oretanum</i>	8
<i>Iberocypris alburnoides</i>	8
<i>Iberocypris palaciosi</i>	10
<i>Knipowitschia bergi</i>	8
<i>Knipowitschia cameliae</i>	10
<i>Knipowitschia caucasica</i>	10
<i>Knipowitschia croatica</i>	10
<i>Knipowitschia goernerii</i>	10
<i>Knipowitschia longicaudata</i>	10
<i>Knipowitschia milleri</i>	8
<i>Knipowitschia montenegrina</i>	10
<i>Knipowitschia mrakovcici</i>	8
<i>Knipowitschia panizzae</i>	10
<i>Knipowitschia punctatissima</i>	8
<i>Knipowitschia radovici</i>	10
<i>Knipowitschia thessala</i>	10
<i>Ladigesocypris ghigii</i>	10
<i>Lampetra fluviatilis</i>	10
<i>Lampetra planeri</i>	8
<i>Lampetra zanandrei</i>	8
<i>Lethenteron camtschaticum</i>	8
<i>Lethenteron reissneri</i>	8
<i>Leucaspis delineatus</i>	8
<i>Leuciscus bearnensis</i>	8
<i>Leuciscus burdigalensis</i>	8
<i>Leuciscus danilewskii</i>	8
<i>Leuciscus idus</i>	8
<i>Leuciscus leuciscus</i>	8
<i>Leuciscus oxyrrhis</i>	8
<i>Liopsetta glacialis</i>	10
<i>Liza aurata</i>	10
<i>Liza ramada</i>	10
<i>Liza saliens</i>	10
<i>Lota lota</i>	8
<i>Luciobarbus albanicus</i>	10
<i>Luciobarbus bocagei</i>	8
<i>Luciobarbus brachycephalus</i>	10
<i>Luciobarbus capito</i>	10
<i>Luciobarbus comizo</i>	8
<i>Luciobarbus graecus</i>	10
<i>Luciobarbus graellsii</i>	10
<i>Luciobarbus guiraonis</i>	8
<i>Luciobarbus microcephalus</i>	10
<i>Luciobarbus sclateri</i>	8

European Fish species	HydroBasin Level
<i>Luciobarbus steindachneri</i>	8
<i>Mesogobius batrachocephalus</i>	10
<i>Misgurnus fossilis</i>	8
<i>Mugil cephalus</i>	10
<i>Neogobius fluviatilis</i>	10
<i>Neogobius melanostomus</i>	10
<i>Neogobius pallasii</i>	10
<i>Osmerus dentex</i>	10
<i>Osmerus eperlanus</i>	10
<i>Oxynoemacheilus bureschi</i>	8
<i>Oxynoemacheilus merga</i>	8
<i>Oxynoemacheilus pindus</i>	8
<i>Oxynoemacheilus theophilii</i>	8
<i>Pachychilon macedonicum</i>	8
<i>Pachychilon pictum</i>	8
<i>Padogobius bonelli</i>	10
<i>Padogobius nigricans</i>	8
<i>Parachondrostoma arrigonis</i>	8
<i>Parachondrostoma miegii</i>	10
<i>Parachondrostoma toxostoma</i>	8
<i>Parachondrostoma turiense</i>	8
<i>Pelasgus epiroticus</i>	10
<i>Pelasgus laconicus</i>	8
<i>Pelasgus marathonicus</i>	10
<i>Pelagius minutus</i>	10
<i>Pelagius prespensis</i>	8
<i>Pelagius stymphalicus</i>	10
<i>Pelagius thesproticus</i>	10
<i>Pelecus cultratus</i>	10
<i>Perca fluviatilis</i>	8
<i>Percarina maeotica</i>	10
<i>Petroleuciscus borysthenicus</i>	10
<i>Petroleuciscus smyrnaeus</i>	10
<i>Petromyzon marinus</i>	10
<i>Phoxinellus alepidotus</i>	10
<i>Phoxinellus dalmaticus</i>	10
<i>Phoxinellus pseudalepidotus</i>	10
<i>Phoxinus bigerri</i>	8
<i>Phoxinus colchicus</i>	10
<i>Phoxinus lumaireul</i>	8
<i>Phoxinus phoxinus</i>	8
<i>Phoxinus septimaniae</i>	10
<i>Phoxinus strandjae</i>	10
<i>Phoxinus strymonicus</i>	8

European Fish species	HydroBasin Level
<i>Platichthys flesus</i>	10
<i>Pleuronectes platessa</i>	10
<i>Pomatoschistus canestrinii</i>	10
<i>Pomatoschistus microps</i>	10
<i>Pomatoschistus montenegrensis</i>	8
<i>Ponticola constructor</i>	10
<i>Ponticola eurycephalus</i>	10
<i>Ponticola gorlap</i>	10
<i>Ponticola kessleri</i>	10
<i>Ponticola syrman</i>	10
<i>Proterorhinus nasalis</i>	10
<i>Proterorhinus semilunaris</i>	8
<i>Proterorhinus tataricus</i>	10
<i>Protochondrostoma genei</i>	8
<i>Pseudochondrostoma duriense</i>	8
<i>Pseudochondrostoma polylepis</i>	8
<i>Pseudochondrostoma willkommii</i>	8
<i>Pungitius hellenicus</i>	10
<i>Pungitius laevis</i>	8
<i>Pungitius platygaster</i>	10
<i>Pungitius pungitius</i>	8
<i>Rhodeus amarus</i>	8
<i>Rhodeus meridionalis</i>	10
<i>Rhynchocypris czekanowskii</i>	8
<i>Rhynchocypris percunurus</i>	10
<i>Romanichthys valsanicola</i>	10
<i>Romanogobio albipinnatus</i>	10
<i>Romanogobio antipai</i>	10
<i>Romanogobio belingi</i>	8
<i>Romanogobio benacensis</i>	10
<i>Romanogobio ciscaucasicus</i>	8
<i>Romanogobio elimeius</i>	10
<i>Romanogobio kesslerii</i>	10
<i>Romanogobio parvus</i>	10
<i>Romanogobio pentatrichus</i>	10
<i>Romanogobio tanaiticus</i>	8
<i>Romanogobio uranoscopus</i>	8
<i>Romanogobio vladykovi</i>	8
<i>Rutilus aula</i>	10
<i>Rutilus basak</i>	10
<i>Rutilus caspicus</i>	10
<i>Rutilus frisii</i>	10
<i>Rutilus heckelii</i>	10
<i>Rutilus karamani</i>	10

European Fish species	HydroBasin Level
<i>Rutilus meidingeri</i>	10
<i>Rutilus ohridanus</i>	10
<i>Rutilus panosi</i>	10
<i>Rutilus pigus</i>	10
<i>Rutilus prespensis</i>	8
<i>Rutilus rubilio</i>	10
<i>Rutilus rutilus</i>	8
<i>Rutilus virgo</i>	8
<i>Rutilus ylikiensis</i>	10
<i>Sabanejewia balcanica</i>	8
<i>Sabanejewia baltica</i>	8
<i>Sabanejewia bulgarica</i>	10
<i>Sabanejewia caucasica</i>	10
<i>Sabanejewia kubanica</i>	10
<i>Sabanejewia larvata</i>	8
<i>Sabanejewia romanica</i>	8
<i>Sabanejewia vallachica</i>	10
<i>Salaria economidisi</i>	10
<i>Salaria fluviatilis</i>	8
<i>Salmo aphelios</i>	10
<i>Salmo balcanicus</i>	10
<i>Salmo carpio</i>	8
<i>Salmo cettii</i>	10
<i>Salmo dentex</i>	10
<i>Salmo ezenami</i>	10
<i>Salmo ferox</i>	10
<i>Salmo fibreni</i>	8
<i>Salmo labrax</i>	8
<i>Salmo letnica</i>	10
<i>Salmo lumi</i>	10
<i>Salmo macedonicus</i>	10
<i>Salmo marmoratus</i>	8
<i>Salmo nigripinnis</i>	10
<i>Salmo obtusirostris</i>	10
<i>Salmo ohridanus</i>	10
<i>Salmo pelagonicus</i>	8
<i>Salmo peristericus</i>	10
<i>Salmo rhodanensis</i>	8
<i>Salmo schiefermuelleri</i>	10
<i>Salmo stomachicus</i>	10
<i>Salmo taleri</i>	10
<i>Salmo trutta</i>	8
<i>Salvelinus alpinus</i>	8
<i>Salvelinus colii</i>	10

European Fish species	HydroBasin Level
<i>Salvelinus evasus</i>	10
<i>Salvelinus fimbriatus</i>	10
<i>Salvelinus gracillimus</i>	10
<i>Salvelinus grayi</i>	10
<i>Salvelinus inframundus</i>	10
<i>Salvelinus killinensis</i>	10
<i>Salvelinus lepechini</i>	8
<i>Salvelinus lonsdalii</i>	10
<i>Salvelinus mallochi</i>	10
<i>Salvelinus maxillaris</i>	10
<i>Salvelinus murta</i>	8
<i>Salvelinus neocomensis</i>	10
<i>Salvelinus obtusus</i>	10
<i>Salvelinus perisii</i>	10
<i>Salvelinus profundus</i>	8
<i>Salvelinus struanensis</i>	10
<i>Salvelinus thingvallensis</i>	8
<i>Salvelinus umbla</i>	10
<i>Salvelinus willoughbii</i>	10
<i>Salvelinus youngeri</i>	10
<i>Sander lucioperca</i>	8
<i>Sander volgensis</i>	8
<i>Scardinius acarnanicus</i>	8
<i>Scardinius dergle</i>	10
<i>Scardinius erythrophthalmus</i>	8
<i>Scardinius graecus</i>	10
<i>Scardinius hesperidicus</i>	10
<i>Scardinius knezevici</i>	10
<i>Scardinius plotizza</i>	10
<i>Scardinius racovitzai</i>	10
<i>Scardinius scardafa</i>	8
<i>Silurus aristotelis</i>	10
<i>Silurus glanis</i>	8
<i>Squalius albus</i>	8
<i>Squalius ahipsi</i>	8
<i>Squalius aradensis</i>	10
<i>Squalius carolitertii</i>	8
<i>Squalius castellanus</i>	8
<i>Squalius cephalus</i>	8
<i>Squalius cii</i>	10
<i>Squalius illyricus</i>	10
<i>Squalius janae</i>	10
<i>Squalius keadicus</i>	10
<i>Squalius laietanus</i>	8

European Fish species	HydroBasin Level
<i>Squalius lucumonis</i>	8
<i>Squalius malacitanus</i>	10
<i>Squalius microlepis</i>	10
<i>Squalius moreoticus</i>	10
<i>Squalius orpheus</i>	10
<i>Squalius pamvoticus</i>	8
<i>Squalius peloponnensis</i>	10
<i>Squalius platyceps</i>	10
<i>Squalius prespensis</i>	8
<i>Squalius pyrenaicus</i>	8
<i>Squalius sp. nov. 'Aaos'</i>	10
<i>Squalius sp. nov. 'Evia'</i>	10
<i>Squalius squalus</i>	8
<i>Squalius svallize</i>	10
<i>Squalius tenellus</i>	10
<i>Squalius torgalensis</i>	10
<i>Squalius valentinus</i>	10
<i>Squalius vardarensis</i>	10
<i>Squalius zrmanjæ</i>	10
<i>Stenodus leucichthys</i>	10
<i>Stenodus nelma</i>	8
<i>Syngnathus abaster</i>	10
<i>Telestes beoticus</i>	10
<i>Telestes croaticus</i>	10
<i>Telestes fontinalis</i>	10
<i>Telestes metohiensis</i>	10
<i>Telestes montenigrinus</i>	10
<i>Telestes muticellus</i>	8
<i>Telestes pleurobipunctatus</i>	10
<i>Telestes polylepis</i>	10
<i>Telestes souffia</i>	8
<i>Telestes sp. nov.</i>	10
<i>Telestes turskyi</i>	10
<i>Telestes ukliva</i>	10
<i>Thymallus arcticus</i>	8
<i>Thymallus thymallus</i>	8
<i>Tinca tinca</i>	8
<i>Trigloporus quadricornis</i>	10
<i>Tropidophoxinellus hellenicus</i>	10
<i>Tropidophoxinellus spartiaticus</i>	10
<i>Umbra krameri</i>	10
<i>Valencia hispanica</i>	10
<i>Valencia letourneuxi</i>	10
<i>Vimba melanops</i>	8

European Fish species	HydroBasin Level
<i>Vimba vimba</i>	8
<i>Zingel asper</i>	10
<i>Zingel balcanicus</i>	10
<i>Zingel streber</i>	8
<i>Zingel zingel</i>	8

Global Crayfish

Global Crayfish species	HydroBasin Level
<i>Astacoides betsileoensis</i>	10
<i>Astacoides caldwelli</i>	10
<i>Astacoides crosnieri</i>	10
<i>Astacoides granulimanus</i>	10
<i>Astacoides hobbsi</i>	10
<i>Astacoides madagascariensis</i>	10
<i>Astacoides petiti</i>	10
<i>Astacopsis franklinii</i>	10
<i>Astacopsis gouldi</i>	8
<i>Astacopsis tricornis</i>	8
<i>Astacus astacus</i>	8
<i>Astacus leptodactylus</i>	8
<i>Astacus pachypus</i>	8
<i>Austropotamobius pallipes</i>	8
<i>Austropotamobius torrentium</i>	8
<i>Barbicambarus cornutus</i>	8
<i>Bouchardina robisoni</i>	8
<i>Cambarellus alvarezi</i>	8
<i>Cambarellus areolatus</i>	10
<i>Cambarellus blacki</i>	10
<i>Cambarellus chapalanus</i>	8
<i>Cambarellus chihuahuae</i>	10
<i>Cambarellus diminutus</i>	8
<i>Cambarellus lesliei</i>	8
<i>Cambarellus montezumae</i>	8
<i>Cambarellus ninae</i>	8
<i>Cambarellus occidentalis</i>	8
<i>Cambarellus patzcuarensis</i>	10
<i>Cambarellus prolixus</i>	8
<i>Cambarellus puer</i>	8
<i>Cambarellus schmitti</i>	8
<i>Cambarellus shufeldtii</i>	8
<i>Cambarellus texanus</i>	8
<i>Cambarellus zempoalensis</i>	10
<i>Cambaroides dauricus</i>	8
<i>Cambaroides japonicus</i>	8
<i>Cambaroides schrenckii</i>	8
<i>Cambaroides similis</i>	8
<i>Cambarus acanthura</i>	8
<i>Cambarus aculabrum</i>	8
<i>Cambarus acuminatus</i>	8

Global Crayfish species	HydroBasin Level
Cambarus asperimanus	8
Cambarus bartonii	8
Cambarus batchi	8
Cambarus bouchardi	8
Cambarus brachydactylus	8
Cambarus brimleyorum	8
Cambarus buntingi	8
Cambarus carinirostris	8
Cambarus carolinus	8
Cambarus catagius	8
Cambarus causeyi	8
Cambarus chasmodactylus	8
Cambarus chaugaensis	8
Cambarus clivosus	8
Cambarus conasaugaensis	8
Cambarus coosae	8
Cambarus coosawattae	8
Cambarus cracens	8
Cambarus crinipes	8
Cambarus cryptodytes	8
Cambarus cumberlandensis	8
Cambarus cymatilis	8
Cambarus davidi	8
Cambarus deweesae	8
Cambarus diogenes	8
Cambarus distans	8
Cambarus doughertyensis	10
Cambarus dubius	8
Cambarus eeseehensis	8
Cambarus elkensis	8
Cambarus englishi	8
Cambarus extraneus	8
Cambarus fasciatus	8
Cambarus friaufi	8
Cambarus gentryi	8
Cambarus georgiae	8
Cambarus girardianus	8
Cambarus graysoni	8
Cambarus halli	8
Cambarus hamulatus	8
Cambarus harti	8
Cambarus hiwasseeensis	8
Cambarus hobbsorum	8
Cambarus howardi	8

Global Crayfish species	HydroBasin Level
Cambarus hubbsi	8
Cambarus hubrichti	8
Cambarus hystriocosus	8
Cambarus jezerinaci	8
Cambarus johni	8
Cambarus jonesi	8
Cambarus laconensis	8
Cambarus latimanus	8
Cambarus lenati	8
Cambarus longirostris	8
Cambarus longulus	8
Cambarus ludovicianus	8
Cambarus maculatus	8
Cambarus manningi	8
Cambarus miltus	8
Cambarus monongalensis	8
Cambarus nerterius	8
Cambarus nodosus	8
Cambarus obeyensis	8
Cambarus obstipus	8
Cambarus ortmanni	8
Cambarus parrishi	8
Cambarus parvocolus	8
Cambarus pecki	8
Cambarus polychromatus	8
Cambarus pristinus	8
Cambarus pyronotus	8
Cambarus reburrus	8
Cambarus reduncus	8
Cambarus reflexus	8
Cambarus rusticiformis	8
Cambarus sciotensis	8
Cambarus scotti	8
Cambarus setosus	8
Cambarus speciosus	8
Cambarus speleocoopi	8
Cambarus sphenoides	8
Cambarus spicatus	8
Cambarus striatus	8
Cambarus strigosus	8
Cambarus subterraneus	8
Cambarus tartarus	8
Cambarus tenebrosus	8
Cambarus thomai	8

Global Crayfish species	HydroBasin Level
Cambarus truncatus	8
Cambarus tuckasegee	8
Cambarus unestami	8
Cambarus veitchorum	8
Cambarus veteranus	8
Cambarus williamsi	8
Cambarus zophonastes	8
Cherax bicarinatus	8
Cherax boesemani	8
Cherax cainii	8
Cherax cuspidatus	8
Cherax dispar	8
Cherax holthuisi	8
Cherax lorentzi	8
Cherax monticola	8
Cherax pallidus	8
Cherax papuanus	8
Cherax peknyi	8
Cherax preissii	8
Cherax quadricarinatus	8
Cherax quinquecarinatus	8
Cherax rhynchotus	8
Distocambarus carlsoni	8
Distocambarus crockeri	8
Distocambarus devexus	8
Distocambarus hunteri	8
Distocambarus youngineri	8
Engaeus australis	10
Engaeus cisternarius	8
Engaeus cunicularius	8
Engaeus curvisuturus	10
Engaeus cymus	8
Engaeus disjuncticus	10
Engaeus fossor	8
Engaeus fultoni	10
Engaeus hemircirratulus	8
Engaeus karnanga	10
Engaeus laevis	8
Engaeus lengana	8
Engaeus leptorhynchus	10
Engaeus lyelli	8
Engaeus mairener	8
Engaeus merosetosus	8
Engaeus nulloprius	10

Global Crayfish species	HydroBasin Level
<i>Engaeus orientalis</i>	8
<i>Engaeus quadrimanus</i>	8
<i>Engaeus sericatus</i>	8
<i>Engaeus strictifrons</i>	8
<i>Engaeus tayatea</i>	10
<i>Engaeus tuberculatus</i>	8
<i>Engaeus victoriensis</i>	8
<i>Engaewa similis</i>	8
<i>Engaewa subcoerulea</i>	8
<i>Euastacus armatus</i>	8
<i>Euastacus australasiensis</i>	8
<i>Euastacus kershawi</i>	8
<i>Euastacus simplex</i>	10
<i>Euastacus spinifer</i>	8
<i>Euastacus yanga</i>	8
<i>Euastacus yarreensis</i>	8
<i>Fallicambarus burrisi</i>	8
<i>Fallicambarus byersi</i>	8
<i>Fallicambarus caesius</i>	8
<i>Fallicambarus danielae</i>	10
<i>Fallicambarus devastator</i>	8
<i>Fallicambarus dissitus</i>	8
<i>Fallicambarus fodiens</i>	8
<i>Fallicambarus gilpini</i>	8
<i>Fallicambarus gordoni</i>	8
<i>Fallicambarus harpi</i>	8
<i>Fallicambarus hortoni</i>	8
<i>Fallicambarus houstonensis</i>	8
<i>Fallicambarus jeanae</i>	8
<i>Fallicambarus kountzeae</i>	8
<i>Fallicambarus macneesei</i>	8
<i>Fallicambarus oryktes</i>	8
<i>Fallicambarus petilicarpus</i>	8
<i>Fallicambarus strawni</i>	8
<i>Faxonella beyeri</i>	8
<i>Faxonella blairi</i>	8
<i>Faxonella clypeata</i>	8
<i>Faxonella creaseri</i>	8
<i>Geocharax falcata</i>	10
<i>Geocharax gracilis</i>	10
<i>Gramastacus insolitus</i>	10
<i>Hobbseus attenuatus</i>	8
<i>Hobbseus cristatus</i>	8
<i>Hobbseus orconectoides</i>	8

Global Crayfish species	HydroBasin Level
Hobbseus petilus	8
Hobbseus prominens	8
Hobbseus valleculeus	8
Hobbseus yalobushensis	8
Ombrastacoides asperrimanus	10
Ombrastacoides brevirostris	8
Ombrastacoides decemdentatus	10
Ombrastacoides denisoni	10
Ombrastacoides dissitus	10
Ombrastacoides huonensis	8
Ombrastacoides ingressus	10
Ombrastacoides leptomerus	10
Ombrastacoides parvicaudatus	10
Ombrastacoides professorum	10
Ombrastacoides pulcher	10
Orconectes acares	8
Orconectes alabamensis	8
Orconectes australis	8
Orconectes barrenensis	8
Orconectes barri	8
Orconectes bisectus	8
Orconectes burri	8
Orconectes carolinensis	8
Orconectes causeyi	8
Orconectes chickasawae	8
Orconectes compressus	8
Orconectes cooperi	8
Orconectes cristavarius	8
Orconectes deanae	8
Orconectes difficilis	8
Orconectes durelli	8
Orconectes erichsonianus	8
Orconectes etnieri	8
Orconectes eupunctus	8
Orconectes forceps	8
Orconectes harrisonii	8
Orconectes hartfieldi	8
Orconectes hathawayi	8
Orconectes hobbsi	8
Orconectes holti	8
Orconectes hylas	8
Orconectes illinoiensis	8
Orconectes immunis	8
Orconectes incomptus	8

Global Crayfish species	HydroBasin Level
Orconectes indianensis	8
Orconectes inermis	8
Orconectes jeffersoni	8
Orconectes jonesi	8
Orconectes juvenilis	8
Orconectes kentuckiensis	8
Orconectes lancifer	8
Orconectes leptogonopodus	8
Orconectes limosus	8
Orconectes longidigitus	8
Orconectes luteus	8
Orconectes macrus	8
Orconectes maletae	8
Orconectes marchandi	8
Orconectes margorectus	8
Orconectes medius	8
Orconectes meeki	8
Orconectes menae	8
Orconectes mirus	8
Orconectes mississippiensis	8
Orconectes nais	8
Orconectes nana	8
Orconectes neglectus	8
Orconectes obscurus	8
Orconectes ozarkae	8
Orconectes packardi	8
Orconectes pagei	8
Orconectes palmeri	8
Orconectes pardalotus	8
Orconectes pellucidus	8
Orconectes perfectus	8
Orconectes peruncus	8
Orconectes placidus	8
Orconectes propinquus	8
Orconectes punctimanus	8
Orconectes putnami	8
Orconectes quadruncus	8
Orconectes quinebaugensis	10
Orconectes rafinesquei	8
Orconectes rhoadesi	8
Orconectes ronaldi	8
Orconectes rusticus	8
Orconectes sanbornii	8
Orconectes saxatilis	8

Global Crayfish species	HydroBasin Level
Orconectes sheltae	8
Orconectes shoupi	8
Orconectes sloanii	8
Orconectes spinosus	8
Orconectes stannardi	8
Orconectes stygocaneyi	10
Orconectes taylori	8
Orconectes theaphionensis	8
Orconectes tricuspis	8
Orconectes validus	8
Orconectes virginienis	8
Orconectes virilis	8
Orconectes williamsi	8
Orconectes wrighti	8
Pacifastacus connectens	8
Pacifastacus fortis	10
Pacifastacus gambelii	8
Pacifastacus leniusculus	8
Pacifastacus nigrescens	10
Paranephrops planifrons	8
Paranephrops zealandicus	8
Parastacus brasiliensis	8
Parastacus defossus	8
Parastacus laevigatus	10
Parastacus nicoleti	8
Parastacus pilimanus	8
Parastacus pugnax	8
Parastacus saffordi	8
Parastacus varicosus	10
Procambarus ablusus	8
Procambarus acanthophorus	8
Procambarus acherontis	10
Procambarus achilli	8
Procambarus acutissimus	8
Procambarus acutus	8
Procambarus advena	8
Procambarus alleni	8
Procambarus ancylus	8
Procambarus angustatus	10
Procambarus apalachicola	10
Procambarus atkinsoni	8
Procambarus attiguus	8
Procambarus barbatus	8
Procambarus barbiger	8

Global Crayfish species	HydroBasin Level
Procambarus bivittatus	10
Procambarus blandingii	8
Procambarus bouvieri	10
Procambarus braswelli	8
Procambarus brazoriensis	8
Procambarus caballeroi	10
Procambarus capillatus	8
Procambarus caritus	8
Procambarus catemacoensis	8
Procambarus cavernicola	10
Procambarus ceruleus	8
Procambarus chacalli	8
Procambarus chacei	8
Procambarus citlaltepeltl	10
Procambarus clarkii	8
Procambarus clemmeri	8
Procambarus cometes	8
Procambarus connus	8
Procambarus contrerasi	8
Procambarus cubensis	8
Procambarus cuetzalanae	8
Procambarus cuevachicae	8
Procambarus curdi	8
Procambarus delicatus	8
Procambarus digueti	8
Procambarus dupratzi	8
Procambarus echinatus	8
Procambarus econfinae	8
Procambarus elegans	8
Procambarus enoplosternum	8
Procambarus epicyrtus	8
Procambarus erichsoni	8
Procambarus erythropros	8
Procambarus escambiensis	8
Procambarus evermanni	8
Procambarus fallax	8
Procambarus fitzpatricki	8
Procambarus franzi	8
Procambarus geminus	8
Procambarus geodytes	8
Procambarus gibbus	8
Procambarus gonopodcristatus	10
Procambarus gracilis	8
Procambarus hagenianus	8

Global Crayfish species	HydroBasin Level
Procambarus hayi	8
Procambarus hidalgoensis	8
Procambarus hinei	8
Procambarus hirsutus	8
Procambarus hoffmani	8
Procambarus horsti	10
Procambarus hortonhobbsi	8
Procambarus howellae	8
Procambarus hubbelli	8
Procambarus hybus	8
Procambarus incilis	8
Procambarus jaculus	8
Procambarus kensleyi	8
Procambarus kilbyi	8
Procambarus lagniappe	8
Procambarus latipleurum	8
Procambarus lecontei	8
Procambarus leitheuseri	10
Procambarus leonensis	10
Procambarus lepidodactylus	10
Procambarus lewisi	8
Procambarus litosternum	8
Procambarus llamasi	8
Procambarus lophotus	8
Procambarus lucifugus	8
Procambarus lunzi	8
Procambarus lylei	8
Procambarus machardy	10
Procambarus mancus	10
Procambarus marthae	8
Procambarus maya	8
Procambarus medialis	8
Procambarus mexicanus	8
Procambarus milleri	10
Procambarus mirandai	8
Procambarus morrisoni	10
Procambarus natchitochae	8
Procambarus nechesae	8
Procambarus nigrocinctus	8
Procambarus niveus	10
Procambarus nueces	8
Procambarus oaxacae	8
Procambarus okaloosae	8
Procambarus olmecorum	8

Global Crayfish species	HydroBasin Level
Procambarus orcinus	10
Procambarus ortmannii	8
Procambarus ouachitae	8
Procambarus paeninsulanus	8
Procambarus pallidus	8
Procambarus paradoxus	8
Procambarus parasimulans	8
Procambarus pearsei	8
Procambarus penni	8
Procambarus pentastylus	10
Procambarus petersi	8
Procambarus pictus	8
Procambarus pilosimanus	8
Procambarus planirostris	8
Procambarus plumimanus	8
Procambarus pogum	8
Procambarus pubescens	8
Procambarus pubischelae	8
Procambarus pycnogonopodus	8
Procambarus pygmaeus	8
Procambarus raneyi	8
Procambarus rathbunae	8
Procambarus regalis	8
Procambarus regiomontanus	10
Procambarus reimeri	8
Procambarus riojai	8
Procambarus roberti	8
Procambarus rodriguezi	8
Procambarus rogersi	10
Procambarus ruthveni	8
Procambarus sbordonii	8
Procambarus seminolae	8
Procambarus shermani	8
Procambarus simulans	8
Procambarus spiculifer	8
Procambarus steigmani	8
Procambarus strenthi	10
Procambarus suttkusi	8
Procambarus talpoides	8
Procambarus tenuis	8
Procambarus texanus	8
Procambarus teziutlanensis	10
Procambarus tlapacoyanensis	10
Procambarus tolteca	8

Global Crayfish species	HydroBasin Level
<i>Procambarus troglodytes</i>	8
<i>Procambarus truculentus</i>	8
<i>Procambarus tulanei</i>	8
<i>Procambarus vazquezae</i>	8
<i>Procambarus veracruzanus</i>	8
<i>Procambarus verrucosus</i>	8
<i>Procambarus versutus</i>	8
<i>Procambarus viaeviridis</i>	8
<i>Procambarus villalobosi</i>	8
<i>Procambarus vioscai</i>	8
<i>Procambarus williamsoni</i>	8
<i>Procambarus xilitlae</i>	10
<i>Procambarus xochitlanae</i>	8
<i>Procambarus youngi</i>	10
<i>Procambarus zapoapensis</i>	10
<i>Procambarus zihuateutlensis</i>	8
<i>Procambarus zonangulus</i>	8
<i>Spinastacoides catinipalmus</i>	10
<i>Spinastacoides inermis</i>	10
<i>Spinastacoides insignis</i>	10
<i>Troglocambarus maclanei</i>	8
<i>Virilastacus araucanus</i>	10
<i>Virilastacus retamali</i>	8
<i>Virilastacus rucapihuelensis</i>	8

Global Mammals

Global Mammal species	HydroBasin Level	Notes
<i>Amphinectomys savamis</i>	10	
<i>Anotomys leander</i>	8	
<i>Aonyx capensis</i>	8	
<i>Aonyx cinerea</i>	8	
<i>Aonyx congicus</i>	8	
<i>Arvicola amphibius</i>	8	
<i>Arvicola sapidus</i>	8	
<i>Atilax paludinosus</i>	8	
<i>Axis porcinus</i>	10	
<i>Babyrousa babyrousa</i>	8	
<i>Babyrousa celebensis</i>	8	
<i>Babyrousa togeanensis</i>	8	
<i>Baiyankamys habbema</i>	10	
<i>Baiyankamys shawmayeri</i>	10	
<i>Blastocerus dichotomus</i>	8	
<i>Bubalus arnee</i>	10	
<i>Castor canadensis</i>	8	
<i>Castor fiber</i>	8	
<i>Cephalorhynchus eutropia</i>	8	
<i>Chibchanomys orcesi</i>	10	
<i>Chibchanomys trichotis</i>	10	
<i>Chimarroale hantu</i>	10	
<i>Chimarroale himalayica</i>	10	
<i>Chimarroale phaeura</i>	10	
<i>Chimarroale platycephalus</i>	8	
<i>Chimarroale styani</i>	8	
<i>Chimarroale sumatrana</i>	10	
<i>Chironectes minimus</i>	8	
<i>Choeropsis liberiensis</i>	8	
<i>Colomys goslingi</i>	8	
<i>Crossomys moncktoni</i>	10	
<i>Ctenomys budini</i>	10	
<i>Dasymys montanus</i>	10	
<i>Delanymys brooksi</i>	10	
<i>Deltamys kempii</i>	8	
<i>Deomys ferrugineus</i>	8	
<i>Dephomys defua</i>	8	
<i>Desmana moschata</i>	8	
<i>Desmomys harringtoni</i>	8	
<i>Elaphurus davidianus</i>	10	
<i>Galemys pyrenaicus</i>	8	

Global Mammal species	HydroBasin Level	Notes
<i>Genetta piscivora</i>	8	
<i>Hippopotamus amphibius</i>	8	
<i>Holochilus brasiliensis</i>	8	
<i>Holochilus chacarius</i>	8	
<i>Holochilus sciureus</i>	8	
<i>Hydrochoerus hydrochaeris</i>	8	
<i>Hydrochoerus isthmius</i>	8	
<i>Hydromys chrysogaster</i>	8	
<i>Hydromys hussoni</i>	10	
<i>Hydromys neobritannicus</i>	8	
<i>Hydromys ziegléri</i>	10	
<i>Hydropotes inermis</i>	8	
<i>Hyemoschus aquaticus</i>	8	
<i>Ichthyomys hydrobates</i>	8	
<i>Ichthyomys pittieri</i>	10	
<i>Ichthyomys stolzmanni</i>	10	
<i>Ichthyomys tweedii</i>	10	
<i>Inia geoffrensis</i>	10	
<i>Kobus ellipsiprymnus</i>	8	
<i>Kobus kob</i>	8	
<i>Kobus leche</i>	8	
<i>Kobus megaceros</i>	10	
<i>Kobus vardonii</i>	10	
<i>Limnogale mergulus</i>	10	
<i>Lipotes vexillifer</i>	10	
<i>Lontra canadensis</i>	8	
<i>Lontra felina</i>	8	without marine range
<i>Lontra longicaudis</i>	8	
<i>Lontra provocax</i>	8	
<i>Lundomys molitor</i>	8	
<i>Lutra lutra</i>	8	
<i>Lutra maculicollis</i>	8	
<i>Lutra sumatrana</i>	8	
<i>Lutreolina crassicaudata</i>	8	
<i>Lutrogale perspicillata</i>	8	
<i>Micropotamogale lamottei</i>	10	
<i>Micropotamogale ruwenzorii</i>	8	
<i>Microtus richardsoni</i>	8	
<i>Mustela lutreola</i>	8	
<i>Nectomys apicalis</i>	8	
<i>Nectomys magdalenae</i>	10	
<i>Nectomys palmipes</i>	8	
<i>Nectomys rattus</i>	8	
<i>Nectomys squamipes</i>	8	

Global Mammal species	HydroBasin Level	Notes
<i>Neofiber alleni</i>	8	
<i>Neomys anomalus</i>	8	
<i>Neomys fodiens</i>	8	
<i>Neomys teres</i>	8	
<i>Neophocaena asiaorientalis</i>	10	
<i>Neotomys ebriosus</i>	8	
<i>Neovison vison</i>	8	
<i>Nesokia bunnii</i>	8	
<i>Neusticomys monticolus</i>	8	
<i>Neusticomys mussoi</i>	10	
<i>Neusticomys oyapocki</i>	8	
<i>Neusticomys peruviansis</i>	10	
<i>Neusticomys venezuelae</i>	8	
<i>Nilopegamys plumbeus</i>	10	
<i>Ondatra zibethicus</i>	8	
<i>Orcaella brevirostris</i>	8	without marine range
<i>Ornithorhynchus anatinus</i>	8	
<i>Oryzomys couesi</i>	8	
<i>Oryzomys palustris</i>	8	
<i>Otomys lacustris</i>	10	
<i>Parahydromys asper</i>	10	
<i>Pelomys fallax</i>	8	
<i>Phoca vitulina</i>	8	without marine range
<i>Platanista gangetica</i>	10	
<i>Potamogale velox</i>	8	
<i>Prionailurus planiceps</i>	10	
<i>Prionailurus viverrinus</i>	10	
<i>Procyon cancrivorus</i>	8	
<i>Pteronura brasiliensis</i>	8	
<i>Pusa caspica</i>	8	
<i>Pusa hispida</i>	8	without marine range
<i>Pusa sibirica</i>	8	
<i>Rheomys mexicanus</i>	10	
<i>Rheomys raptor</i>	10	
<i>Rheomys thomasi</i>	10	
<i>Rheomys underwoodi</i>	10	
<i>Rhinoceros unicornis</i>	10	
<i>Rucervus duvaucelii</i>	10	
<i>Rucervus eldii</i>	10	
<i>Ruwenzorisorex suncoides</i>	10	
<i>Scapteromys aquaticus</i>	8	
<i>Sigmodon inopinatus</i>	10	
<i>Sigmodon peruanus</i>	8	
<i>Sorex alaskanus</i>	10	

Global Mammal species	HydroBasin Level	Notes
<i>Sotalia fluviatilis</i>	8	
<i>Sousa chinensis</i>	10	without marine range
<i>Sousa teuszii</i>	8	without marine range
<i>Tapirus bairdii</i>	8	
<i>Tapirus indicus</i>	10	
<i>Tapirus pinchaque</i>	10	
<i>Tapirus terrestris</i>	8	
<i>Thryonomys swinderianus</i>	8	
<i>Tragelaphus spekii</i>	8	
<i>Trichechus inunguis</i>	10	
<i>Trichechus manatus</i>	10	without marine range
<i>Trichechus senegalensis</i>	10	without marine range
<i>Xeromys myoides</i>	10	