



## **Briefing document for the Fourteenth Meeting of the Conference of the Parties to the Convention on the Conservation of Migratory Species of Wild Animals (CMS COP14)**

### **Freshwater fishes of potential interest for inclusion in CMS**

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### **Background**

Migratory freshwater fishes play key roles in ecosystem functioning, support the economy and livelihoods of millions of people worldwide, and have cultural importance to numerous communities. Conservation of these species and the freshwater habitats they require is, therefore, vital in terms of both their biological and socioeconomic value<sup>2</sup>. However, globally migratory freshwater fish populations declined by an average of 76% between 1970 and 2016<sup>3</sup>. At present, migratory freshwater fishes are generally overlooked by current policy mechanisms, with only a few species listed on the CMS Appendices<sup>4</sup>.

The aim of this briefing document is to use the recently published global freshwater fish assessment from The IUCN Red List of Threatened Species™ (hereafter “IUCN Red List”)<sup>5</sup> to highlight freshwater fishes of potential interest for inclusion in CMS and identify patterns in taxonomy, geography, and threat processes amongst the highlighted species.

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<sup>2</sup> Worthington, T.A. et al. 2022. Global swimways for the conservation of migratory freshwater fishes. *Frontiers in Ecology and the Environment*. 20: 573–580

<sup>3</sup> Deinet, S. et al. 2020. The Living Planet Index (LPI) for migratory freshwater fish - Technical Report. World Fish Migration Foundation, The Netherlands.

<sup>4</sup> [https://www.cms.int/sites/default/files/basic\\_page\\_documents/appendices\\_cop13\\_e\\_0.pdf](https://www.cms.int/sites/default/files/basic_page_documents/appendices_cop13_e_0.pdf)

<sup>5</sup> The IUCN Red List of Threatened Species™ (<https://www.iucnredlist.org>) is made possible through the active participation of the Red List Partnership (<https://www.iucnredlist.org/about/partners>).

## **Methods**

This analysis is based on data from version 2023-1 of the IUCN Red List<sup>6</sup>.

### **1. Defining freshwater fishes**

Fishes were defined based on species in the classes Actinopterygii, Chondrichthyes, Myxini, Petromyzonti, or Sarcopterygii. Fish taxonomy on the IUCN Red List largely follows that of Eschmeyer's Catalog of Fishes<sup>7</sup>, but there are some discrepancies, primarily based on advice from the IUCN Species Survival Commission or due to taxonomic changes over time that have not yet been captured on the IUCN Red List.

Freshwater species were then defined based on those in the 'Freshwater (=Inland waters)' system. This resulted in a list of 14,898 freshwater fishes.

Caveats: As of December 2023, freshwater fishes are considered a comprehensively assessed group on the IUCN Red List because 80% of formally described species have a published Red List assessment. However, it should be noted that 20% of freshwater fishes still require assessment and will therefore not be considered in this analysis. It is recommended that this analysis is repeated as the coverage of freshwater fishes on the IUCN Red List increases.

### **2. Defining migratory freshwater fishes**

Migratory freshwater fishes were then identified from the above 14,898 species based on those with movement patterns of 'Altitudinal Migrant', 'Full Migrant', or 'Nomadic'. This resulted in a list of 1,183 migratory freshwater fishes.

The above movement patterns are defined as follows:

- **Nomadic** - moves in response to resources that are sporadic in time and distribution. Examples include Golden-plumed Parakeet (*Leptosittaca branickii*), Palm Lorikeet (*Charmosyna palmarum*), Grey Imperial-pigeon (*Ducula pickeringii*), Addax (*Addax nasomaculatus*) and Plains Mouse (*Pseudomys australis*). Nomadic species may congregate, but not predictably in terms of location and timing (e.g., Lesser Flamingo (*Phoeniconaias minor*)). Nomadic species have evolved to move. Nomadic species usually cannot be conserved at the site scale alone.
- **Full migrant** – a substantial proportion of the global or regional population makes regular or seasonal cyclical movements beyond the breeding range, with predictable timing and destinations. Examples include Siberian Crane (*Leucogeranus leucogeranus*), Bluefin Tuna (*Thunnus* spp.), Humpback Whale (*Megaptera novaeangliae*), Sockeye Salmon (*Oncorhynchus nerka*), Lake Sturgeon (*Acipenser fulvescens*), European Eel (*Anguilla anguilla*), Mekong Giant Catfish (*Pangasianodon gigas*) and American Horseshoe Crab (*Limulus polyphemus*). This includes species that may be migratory only in part of their range (e.g. Common Wildebeest (*Connochaetes taurinus*)) or part of their population (e.g. White-starred Robin (*Pogonocichla stellata*)), short-distance migrants (e.g., Black Crowned-Crane (*Balearica pavonina*)) and migrants that occasionally may respond to unusual conditions in a semi-nomadic way (e.g. Black Honeyeater (*Sugomel nigrum*) and Common Gull-billed Tern (*Gelochelidion nilotica*)). Migratory species may require conservation action (at specific sites, or beyond sites) along migration routes.

The definitions above exclude "environmental response migrants" i.e. species that are largely resident but move opportunistically in response to irregular environmental conditions such as

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<sup>6</sup> IUCN 2024. The IUCN Red List of Threatened Species. Version 2023-1. <https://www.iucnredlist.org/>

<sup>7</sup> <https://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>

fire, locust eruptions, etc., “rains migrants/arid migrants” i.e. species which move with unpredictable timing and destination in response to irregular rainfall patterns, “nutrition migrants/post-roost dispersers” i.e. species that disperse daily from roosts to forage, and “post-breeding dispersers” which may not make cyclical movements i.e. dispersers that may not return to the same breeding area. All such species should not be coded as migrants or nomads.

- **Altitudinal migrant** – regularly/seasonally makes cyclical movements to higher/ lower elevations with predictable timing and destinations. Examples include Three-wattled Bellbird (*Procnias tricarunculatus*). Partial altitudinal migrants might not be best conserved at the site scale alone, if individual sites do not encompass the full altitudinal range of the species.

Caveats: It is recommended but not required to code movement patterns as part of an IUCN Red List assessment. Of the 14,898 assessed freshwater fishes, 6,823 (46%) had no movement pattern coded (i.e., this field was not completed by the Red List assessors) and 3,560 (24%) had movement pattern coded as ‘Unknown’.

Definitions of movement patterns on the IUCN Red List are applicable to all taxonomic groups and therefore, differ from the commonly used definitions for migratory fishes (e.g., anadromous, potadromous, diadromous). It is not possible to map directly between the IUCN definitions and this terminology. Therefore, we have retained the IUCN definitions in this analysis.

### 3. Defining transboundary species

Transboundary species were then identified from the above 1,183 species based on those coded to occur in at least two countries with presence coded as ‘Extant’ or ‘Possibly Extinct’ and origin coded as ‘Native’ or ‘Reintroduced’. This resulted in a list of 891 migratory freshwater fishes that occur in at least two countries. These species can be found in the ‘Species List’ below.

Caveats: This filter removes species that are endemic to one country. However, it is not possible to confirm that all species occurring in at least two countries also perform migrations across their borders. Migratory routes are not mapped as part of an IUCN Red List assessment.

### 4. Defining species of conservation concern

One way to identify species of conservation concern is based on the assigned IUCN Red List Categories, which indicate the extinction risk of the species. The breakdown of Red List Categories associated with the ‘Species List’ below are as follows:

IUCN Red List Category	Count
Extinct (EX)	0
Extinct in the Wild (EW)	0
Critically Endangered (CR)	19
Endangered (EN)	24
Vulnerable (VU)	44
Near Threatened (NT)	30
Least Concern (LC) or Lower Risk/least concern (LR/lc)	700
Data Deficient (DD)	74
<b>Total</b>	<b>891</b>

Critically Endangered (CR), Endangered (EN), and Vulnerable (VU) are the “threatened” categories and refer to species at high to extremely high risk of extinction in the wild.

Alternative ways of identifying species of conservation concern include using the current population trend (i.e., those species where the population trend is ‘Decreasing’). This information is included in the ‘Species List’ below but not further analysed here.

## **Results**

**There are 87 threatened and transboundary migratory freshwater fishes in the ‘Species List’ below, which should be considered as species of potential interest for inclusion in CMS.**

### **Taxonomic patterns**

The transboundary migratory freshwater fishes identified in the overall ‘Species List’ belong to 120 families, with greatest representation of the families Cyprinidae (carps or minnows – 157 species, 18%) and Gobiidae (gobies – 85 species, 10%).

However, when focussing on the subset of threatened species, the families with greatest representation were the Cyprinidae (carps or minnows – 26 species, 30%), Acipenseridae (sturgeons – 16 species, 18%), Salmonidae (salmonids – 7 species, 8%), Anguillidae (freshwater eels – 5 species, 6%), Clupeidae (herrings – 5 species, 6%), Pangasiidae (shark catfishes – 4 species, 5%), and Pimelodidae (long-whiskered catfishes – 4 species, 5%).

The latter family includes the two species proposed for inclusion on CMS: the gilded catfish (*Brachyplatystoma rousseauxii*) and laulao catfish (*B. vaillantii*). The Living Planet Index (LPI) for migratory freshwater fishes also indicates the Acipenseridae and Anguillidae as families facing severe declines, with 91% and 92% declines, respectively, in populations of these families between 1970 and 2016<sup>8</sup>.

### **Geographic patterns**

The table below indicates the region<sup>9</sup> each species in the ‘Species List’ and the subset of threatened species in the ‘Species List’ are coded to occur in. The counts add up to greater than the total number of species because species can occur in more than one region.

Region		All Species		Threatened Species	
		Count	Proportion	Count	Proportion
Africa	North Africa	53	6%	2	2%
	Sub-Saharan Africa	197	22%	8	9%
Americas	Caribbean Islands	32	4%	2	2%
	Mesoamerica	55	6%	5	6%
	North America	63	7%	10	11%
	South America	195	22%	10	11%
Antarctica	Antarctic	1	0%	0	0%
Asia	East Asia	168	19%	18	21%
	North Asia	124	14%	22	25%
	South and Southeast Asia	321	36%	28	32%
	West and Central Asia	127	14%	28	32%

<sup>8</sup> Deinet, S. et al. 2020. The Living Planet Index (LPI) for migratory freshwater fish - Technical Report. World Fish Migration Foundation, The Netherlands.

<sup>9</sup> <https://www.iucnredlist.org/resources/country-codes>

Europe	Europe	76	9%	17	20%
Oceania	Oceania	100	11%	0	0%

The regions hosting the most transboundary migratory freshwater fishes are South and Southeast Asia (321 species, 36%), Sub-Saharan Africa (197 species, 22%), South America (195 species, 22%), and East Asia (168 species, 19%).

However, when focussing on the subset of threatened species, the regions hosting the most transboundary migratory freshwater fishes are South and Southeast Asia (28 species, 32%), West and Central Asia (28 species, 32%), North Asia (22 species, 25%), East Asia (18 species, 21%), and Europe (17 species, 20%).

### Key threatening processes

The table below indicates the high-level threats<sup>10</sup> each species in the 'Species List' and the subset of threatened species in the 'Species List' are coded to be facing. The counts add up to greater than the total number of species because species can be coded to face more than one threat. Additionally, some species are coded to face no threats or threats may be unknown.

Threat	All Species		Threatened Species	
	Count	Proportion	Count	Proportion
Residential & commercial development	89	10%	18	21%
Agriculture & aquaculture	143	16%	12	14%
Energy production & mining	123	14%	18	21%
Transportation & service corridors	17	2%	9	10%
Biological resource use	450	51%	71	82%
Human intrusions & disturbance	30	3%	8	9%
Natural system modifications	388	44%	73	84%
Invasive & other problematic species, genes & diseases	101	11%	28	32%
Pollution	361	41%	56	64%
Geological events	1	0%	0	0%
Climate change & severe weather	86	10%	21	24%
Other options	3	0%	2	2%

Key threats to transboundary migratory freshwater fishes are biological resource use (including small- and large-scale harvesting, and intentional and unintentional use – 450 species, 51%), natural system modifications (including dams and water extraction – 388 species, 44%), and pollution (from agricultural, domestic, and industrial sources – 361 species, 41%).

These are also the key threats to threatened transboundary migratory freshwater fishes, although affecting a higher proportion of species: natural system modifications (73 species, 84%), biological resource use (71 species, 82%), and pollution (56 species, 64%).

Demonstrating these key threats, the gilded catfish (*Brachyplatystoma rousseauxii*) is currently assessed as Vulnerable (VU) on the IUCN Red List based on a projected population decline of at least 37% over the next three generations as a result of damming on the Madeira

<sup>10</sup> <https://www.iucnredlist.org/resources/threat-classification-scheme>

River<sup>11</sup>. Globally, there has been a substantial increase in the number of dams over the past six decades<sup>12</sup> and now only 37% of rivers over 1,000 km remain free-flowing<sup>13</sup>. Dams often have major impacts on migratory fish, for example through creating barriers to migration routes, and altering flow regimes and sediment flux. The impact of damming on the gilded catfish could increase if poorly planned new developments are implemented in other river basins, especially in the Andean region. Ongoing commercial fishing of the species and pollution from mining activity are also threats to the species.

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<sup>11</sup> Salvador, G.N. et al. 2023. *Brachyplatystoma rousseauxii*. *The IUCN Red List of Threatened Species 2023*: e.T167648A53827634.

<sup>12</sup> Lehner, B. et al. 2011. High-resolution mapping of the world's reservoirs and dams for sustainable river-flow management. *Frontiers in Ecology and the Environment*. 9:494-502

<sup>13</sup> Grill, G. et al. 2019. Mapping the world's free-flowing rivers. *Nature*. 569: 215–221.

## Species List

The species list below includes 891 species that meet the following criteria based on IUCN Red List data (see Methods for full details):

- Fishes, defined as species in the classes Actinopterygii, Chondrichthyes, Myxini, Petromyzonti, or Sarcopterygii
- Freshwater species, defined as those coded to the Freshwater (=Inland waters) system
- Migratory species, defined as those coded as Altitudinal Migrant, Full Migrant, or Nomadic
- Transboundary species, defined as those coded to occur in at least two countries with Extant or Possibly Extinct presence and Native or Reintroduced origin.

Threatened species are identified through colour coding as follows:

- Red background – Assessed as Critically Endangered (CR)
- Orange background – Assessed as Endangered (EN)
- Yellow background – Assessed as Vulnerable (VU)

Family	Binomial	Movement Pattern	IUCN Red List Category	IUCN Red List Criteria	Population Trend	Number of countries
ACIPENSERIDA E	<i>Acipenser baerii</i>	Full Migrant	Critically Endangered	A2bd	Decreasing	2
ACIPENSERIDA E	<i>Acipenser brevirostrum</i>	Full Migrant	Vulnerable	A2bce	Stable	2
ACIPENSERIDA E	<i>Acipenser fulvescens</i>	Full Migrant	Endangered	A2bcd	Unknown	2
ACIPENSERIDA E	<i>Acipenser gueldenstaedtii</i>	Full Migrant	Critically Endangered	A2bcde	Decreasing	11
ACIPENSERIDA E	<i>Acipenser medirostris</i>	Full Migrant	Endangered	A2bc	Unknown	3
ACIPENSERIDA E	<i>Acipenser mikadoi</i>	Full Migrant	Critically Endangered	A2bc; C2a(i,ii)	Decreasing	3
ACIPENSERIDA E	<i>Acipenser nudiventris</i>	Full Migrant	Critically Endangered	A2cde	Decreasing	5
ACIPENSERIDA E	<i>Acipenser oxyrinchus</i>	Full Migrant	Vulnerable	A2bc	Increasing	8

ACIPENSERIDA E	<i>Acipenser persicus</i>	Full Migrant	Critically Endangered	A2cde; C2a(ii)	Decreasing	5
ACIPENSERIDA E	<i>Acipenser ruthenus</i>	Full Migrant	Endangered	A2cde	Decreasing	16
ACIPENSERIDA E	<i>Acipenser schrenckii</i>	Full Migrant	Critically Endangered	A2bd	Decreasing	2
ACIPENSERIDA E	<i>Acipenser stellatus</i>	Full Migrant	Critically Endangered	A2bcde	Decreasing	13
ACIPENSERIDA E	<i>Acipenser transmontanus</i>	Full Migrant	Vulnerable	A2bc	Stable	2
ACIPENSERIDA E	<i>Huso huso</i>	Full Migrant	Critically Endangered	A2bcd	Decreasing	10
ACIPENSERIDA E	<i>Pseudoscaphirhynchus hermanni</i>	Full Migrant	Critically Endangered	A2c	Decreasing	2
ACIPENSERIDA E	<i>Pseudoscaphirhynchus kaufmanni</i>	Full Migrant	Critically Endangered	A2c	Decreasing	3
ANGUILLIDAE	<i>Anguilla anguilla</i>	Full Migrant	Critically Endangered	A2bd+4bd	Decreasing	57
ANGUILLIDAE	<i>Anguilla australis</i>	Full Migrant	Near Threatened		Unknown	4
ANGUILLIDAE	<i>Anguilla bengalensis</i>	Full Migrant	Near Threatened	A2cd	Unknown	17
ANGUILLIDAE	<i>Anguilla bicolor</i>	Full Migrant	Near Threatened	A2bcde	Unknown	26
ANGUILLIDAE	<i>Anguilla borneensis</i>	Full Migrant	Vulnerable	A2c+4c	Unknown	2
ANGUILLIDAE	<i>Anguilla celebesensis</i>	Full Migrant	Data Deficient		Unknown	3
ANGUILLIDAE	<i>Anguilla interioris</i>	Full Migrant	Data Deficient		Unknown	3
ANGUILLIDAE	<i>Anguilla japonica</i>	Full Migrant	Endangered	A2bcd	Decreasing	6
ANGUILLIDAE	<i>Anguilla luzonensis</i>	Full Migrant	Vulnerable	D2	Unknown	2
ANGUILLIDAE	<i>Anguilla marmorata</i>	Full Migrant	Least Concern		Unknown	41
ANGUILLIDAE	<i>Anguilla megastoma</i>	Full Migrant	Data Deficient		Unknown	10



ANGUILLIDAE	<i>Anguilla mossambica</i>	Full Migrant	Near Threatened	A2bcde	Unknown	12
ANGUILLIDAE	<i>Anguilla obscura</i>	Full Migrant	Data Deficient		Unknown	12
ANGUILLIDAE	<i>Anguilla reinhardtii</i>	Full Migrant	Least Concern		Unknown	5
ANGUILLIDAE	<i>Anguilla rostrata</i>	Full Migrant	Endangered	A2bd	Stable	43
MURAENESOCIDAE	<i>Congresox talabon</i>	Full Migrant	Least Concern		Unknown	16
MURAENESOCIDAE	<i>Congresox talabonoides</i>	Full Migrant	Least Concern		Unknown	34
MURAENESOCIDAE	<i>Muraenesox cinereus</i>	Full Migrant	Least Concern		Unknown	41
MURAENIDAE	<i>Gymnothorax polyuranodon</i>	Full Migrant	Least Concern		Unknown	12
MURAENIDAE	<i>Strophidon sathete</i>	Full Migrant	Least Concern		Unknown	42
OPHICHTHIDAE	<i>Bascanichthys deraniyagalai</i>	Full Migrant	Data Deficient		Unknown	2
ATHERINIDAE	<i>Atherina boyeri</i>	Full Migrant	Least Concern		Unknown	38
ATHERINIDAE	<i>Atherinomorus lacunosus</i>	Full Migrant	Least Concern		Unknown	50
ATHERINOPSIDAE	<i>Membras vagrans</i>	Full Migrant	Data Deficient		Unknown	2
ATHERINOPSIDAE	<i>Odontesthes hatcheri</i>	Altitudinal Migrant	Vulnerable	B2ab(i,ii,iii,iv,v)	Decreasing	2
BATRACHOIDIDAE	<i>Batrachoides goldmani</i>	Full Migrant	Least Concern		Unknown	2
BELONIDAE	<i>Xenentodon canciloides</i>	Full Migrant	Least Concern		Unknown	7
ZENARCHOPTERIDAE	<i>Zenarchopterus caudovittatus</i>	Full Migrant	Least Concern		Unknown	3
ZENARCHOPTERIDAE	<i>Zenarchopterus dispar</i>	Full Migrant	Least Concern		Unknown	27

ZENARCHOPTERIDAE	<i>Zenarchopterus dunckeri</i>	Full Migrant	Least Concern		Unknown	11
ZENARCHOPTERIDAE	<i>Zenarchopterus gilli</i>	Full Migrant	Least Concern		Unknown	16
ZENARCHOPTERIDAE	<i>Zenarchopterus striga</i>	Full Migrant	Least Concern		Unknown	3
ALESTIDAE	<i>Alestes baremoze</i>	Full Migrant	Least Concern		Unknown	19
ALESTIDAE	<i>Alestes dentex</i>	Full Migrant	Least Concern		Unknown	18
ALESTIDAE	<i>Alestes macrophthalmus</i>	Full Migrant	Least Concern		Unknown	12
ALESTIDAE	<i>Brycinus brevis</i>	Full Migrant	Endangered	B2ab(iii)	Unknown	2
ALESTIDAE	<i>Brycinus imberi</i>	Full Migrant	Least Concern		Unknown	21
ALESTIDAE	<i>Brycinus jacksonii</i>	Full Migrant	Least Concern		Unknown	4
ALESTIDAE	<i>Brycinus leuciscus</i>	Full Migrant	Least Concern		Decreasing	11
ALESTIDAE	<i>Brycinus macrolepidotus</i>	Full Migrant	Least Concern		Unknown	28
ALESTIDAE	<i>Brycinus sadleri</i>	Full Migrant	Least Concern		Unknown	5
ALESTIDAE	<i>Bryconalestes longipinnis</i>	Full Migrant	Least Concern		Unknown	15
ALESTIDAE	<i>Hydrocynus brevis</i>	Full Migrant	Least Concern		Unknown	17
ALESTIDAE	<i>Hydrocynus forskahlii</i>	Full Migrant	Least Concern		Unknown	27
ALESTIDAE	<i>Hydrocynus vittatus</i>	Full Migrant	Least Concern		Unknown	29
ALESTIDAE	<i>Micralestes acutidens</i>	Full Migrant	Least Concern		Unknown	17
ALESTIDAE	<i>Micralestes elongatus</i>	Full Migrant	Least Concern		Unknown	11
ALESTIDAE	<i>Micralestes occidentalis</i>	Full Migrant	Least Concern		Unknown	11
ALESTIDAE	<i>Rhabdalestes septentrionalis</i>	Full Migrant	Least Concern		Unknown	16

ANOSTOMIDAE	<i>Laemolyta orinocensis</i>	Full Migrant	Least Concern		Stable	2
ANOSTOMIDAE	<i>Leporinus acutidens</i>	Full Migrant	Least Concern		Unknown	3
ANOSTOMIDAE	<i>Leporinus affinis</i>	Full Migrant	Least Concern		Unknown	3
ANOSTOMIDAE	<i>Leporinus agassizii</i>	Full Migrant	Least Concern		Unknown	7
ANOSTOMIDAE	<i>Leporinus altipinnis</i>	Full Migrant	Least Concern		Unknown	3
ANOSTOMIDAE	<i>Leporinus amazonicus</i>	Full Migrant	Least Concern		Unknown	3
ANOSTOMIDAE	<i>Leporinus aripuanaensis</i>	Full Migrant	Least Concern		Unknown	4
ANOSTOMIDAE	<i>Leporinus bleheri</i>	Full Migrant	Data Deficient		Unknown	2
ANOSTOMIDAE	<i>Leporinus brunneus</i>	Full Migrant	Least Concern		Unknown	6
ANOSTOMIDAE	<i>Leporinus crassilabris</i>	Full Migrant	Least Concern		Decreasing	2
ANOSTOMIDAE	<i>Leporinus cylindriciformis</i>	Full Migrant	Least Concern		Unknown	7
ANOSTOMIDAE	<i>Leporinus desmotes</i>	Full Migrant	Least Concern		Unknown	7
ANOSTOMIDAE	<i>Leporinus fasciatus</i>	Full Migrant	Least Concern		Unknown	9
ANOSTOMIDAE	<i>Leporinus friderici</i>	Full Migrant	Least Concern		Stable	12
ANOSTOMIDAE	<i>Leporinus granti</i>	Full Migrant	Least Concern		Stable	5
ANOSTOMIDAE	<i>Leporinus jamesi</i>	Full Migrant	Least Concern		Unknown	4
ANOSTOMIDAE	<i>Leporinus klausewitzii</i>	Full Migrant	Least Concern		Unknown	3
ANOSTOMIDAE	<i>Leporinus lacustris</i>	Full Migrant	Least Concern		Unknown	4
ANOSTOMIDAE	<i>Leporinus maculatus</i>	Full Migrant	Least Concern		Unknown	7

ANOSTOMIDAE	<i>Leporinus melanostictus</i>	Full Migrant	Least Concern		Unknown	2
ANOSTOMIDAE	<i>Leporinus ortomaculatus</i>	Full Migrant	Least Concern		Unknown	4
ANOSTOMIDAE	<i>Leporinus parae</i>	Full Migrant	Least Concern		Unknown	5
ANOSTOMIDAE	<i>Leporinus striatus</i>	Full Migrant	Least Concern		Stable	10
ANOSTOMIDAE	<i>Leporinus subniger</i>	Full Migrant	Least Concern		Unknown	3
ANOSTOMIDAE	<i>Megaleporinus obtusidens</i>	Full Migrant	Least Concern		Unknown	4
ANOSTOMIDAE	<i>Megaleporinus trifasciatus</i>	Full Migrant	Least Concern		Unknown	7
ANOSTOMIDAE	<i>Schizodon scotorhabdotus</i>	Full Migrant	Least Concern		Stable	2
BRYCONIDAE	<i>Brycon amazonicus</i>	Full Migrant	Least Concern		Unknown	6
BRYCONIDAE	<i>Brycon atrocaudatus</i>	Altitudinal Migrant	Least Concern		Decreasing	2
BRYCONIDAE	<i>Brycon behreae</i>	Altitudinal Migrant	Least Concern		Stable	2
BRYCONIDAE	<i>Brycon falcatus</i>	Full Migrant	Least Concern		Unknown	8
BRYCONIDAE	<i>Brycon hilarii</i>	Full Migrant	Least Concern		Unknown	7
BRYCONIDAE	<i>Brycon melanopterus</i>	Full Migrant	Least Concern		Unknown	4
BRYCONIDAE	<i>Brycon orbignyanus</i>	Full Migrant	Endangered	A2c	Decreasing	4
BRYCONIDAE	<i>Brycon pesu</i>	Full Migrant	Least Concern		Unknown	9
BRYCONIDAE	<i>Brycon whitei</i>	Full Migrant	Least Concern		Decreasing	2
BRYCONIDAE	<i>Salminus brasiliensis</i>	Full Migrant	Least Concern		Unknown	5
BRYCONIDAE	<i>Salminus hilarii</i>	Full Migrant	Least Concern		Unknown	3
CHARACIDAE	<i>Astyanax integer</i>	Full Migrant	Least Concern		Stable	2
CHARACIDAE	<i>Astyanax magdalenae</i>	Altitudinal Migrant	Least Concern		Stable	2

CHARACIDAE	<i>Astyanax metae</i>	Altitudinal Migrant	Least Concern		Stable	2
CHARACIDAE	<i>Astyanax orstedii</i>	Full Migrant	Least Concern		Stable	3
CHARACIDAE	<i>Bryconamericus cismontanus</i>	Altitudinal Migrant	Least Concern		Stable	2
CHARACIDAE	<i>Bryconamericus deuterodonoides</i>	Full Migrant	Least Concern		Stable	2
CHARACIDAE	<i>Charax metae</i>	Altitudinal Migrant	Least Concern		Stable	2
CHARACIDAE	<i>Cheirodontops gayi</i>	Altitudinal Migrant	Least Concern		Stable	2
CHARACIDAE	<i>Eretmobrycon brevirostris</i>	Altitudinal Migrant	Least Concern		Stable	2
CHARACIDAE	<i>Eretmobrycon festae</i>	Altitudinal Migrant	Least Concern		Stable	2
CHARACIDAE	<i>Hemibrycon metae</i>	Altitudinal Migrant	Least Concern		Stable	2
CHARACIDAE	<i>Jupiaba asymmetrica</i>	Full Migrant	Least Concern		Stable	4
CHARACIDAE	<i>Jupiaba zonata</i>	Full Migrant	Least Concern		Stable	5
CHARACIDAE	<i>Paracheirodon axelrodi</i>	Nomadic	Least Concern		Stable	3
CHARACIDAE	<i>Roeboides dientonito</i>	Full Migrant	Least Concern		Stable	3
CHARACIDAE	<i>Thayeria obliqua</i>	Nomadic	Least Concern		Stable	5
CITHARINIDAE	<i>Citharidium ansorgii</i>	Full Migrant	Data Deficient		Unknown	3
CITHARINIDAE	<i>Citharinops distichodoides</i>	Full Migrant	Least Concern		Unknown	6
CITHARINIDAE	<i>Citharinus citharus</i>	Full Migrant	Least Concern		Unknown	16
CITHARINIDAE	<i>Citharinus eburneensis</i>	Full Migrant	Least Concern		Decreasing	2
CURIMATIDAE	<i>Cyphocharax magdalenae</i>	Full Migrant	Least Concern		Decreasing	4

CURIMATIDAE	<i>Cyphocharax oenas</i>	Full Migrant	Least Concern		Stable	2
CURIMATIDAE	<i>Cyphocharax voga</i>	Full Migrant	Least Concern		Stable	4
CURIMATIDAE	<i>Pseudocurimata peruana</i>	Altitudinal Migrant	Near Threatened	B1b(i,iii,v)	Decreasing	2
CURIMATIDAE	<i>Steindachnerina argentea</i>	Full Migrant	Least Concern		Stable	3
CURIMATIDAE	<i>Steindachnerina pupula</i>	Full Migrant	Least Concern		Stable	2
CYNODONTIDAE	<i>Hydrolycus scomberoides</i>	Full Migrant	Least Concern		Unknown	5
CYNODONTIDAE	<i>Hydrolycus tatauaia</i>	Full Migrant	Least Concern		Unknown	6
CYNODONTIDAE	<i>Hydrolycus wallacei</i>	Full Migrant	Least Concern		Unknown	3
CYNODONTIDAE	<i>Rhaphiodon vulpinus</i>	Full Migrant	Least Concern		Unknown	10
DISTICHODONTIDAE	<i>Distichodus rostratus</i>	Full Migrant	Least Concern		Unknown	18
DISTICHODONTIDAE	<i>Nannocharax ansorgii</i>	Full Migrant	Least Concern		Unknown	13
DISTICHODONTIDAE	<i>Nannocharax fasciatus</i>	Full Migrant	Least Concern		Unknown	18
DISTICHODONTIDAE	<i>Nannocharax occidentalis</i>	Full Migrant	Least Concern		Unknown	9
ERYTHRINIDAE	<i>Hoplerythrinus unitaeniatus</i>	Full Migrant	Least Concern		Stable	12
ERYTHRINIDAE	<i>Hoplias aimara</i>	Full Migrant	Least Concern		Decreasing	6
HEMIODONTIDAE	<i>Anodus elongatus</i>	Full Migrant	Least Concern		Unknown	6
HEMIODONTIDAE	<i>Anodus orinocensis</i>	Full Migrant	Least Concern		Unknown	4

HEMIODONTIDAE	<i>Argonectes longiceps</i>	Full Migrant	Least Concern		Stable	7
HEMIODONTIDAE	<i>Hemiodus immaculatus</i>	Full Migrant	Least Concern		Unknown	3
HEMIODONTIDAE	<i>Hemiodus orthonops</i>	Full Migrant	Least Concern		Unknown	4
HEMIODONTIDAE	<i>Hemiodus semitaeniatus</i>	Full Migrant	Least Concern		Unknown	6
HEPSETIDAE	<i>Hepsetus odoe</i>	Full Migrant	Least Concern		Unknown	9
PARODONTIDAE	<i>Parodon apolinari</i>	Altitudinal Migrant	Least Concern		Stable	2
PARODONTIDAE	<i>Saccodon dariensis</i>	Full Migrant	Least Concern		Unknown	2
PROCHILODONTIDAE	<i>Prochilodus lineatus</i>	Full Migrant	Least Concern		Unknown	5
PROCHILODONTIDAE	<i>Prochilodus mariae</i>	Full Migrant	Least Concern		Decreasing	2
PROCHILODONTIDAE	<i>Prochilodus nigricans</i>	Full Migrant	Least Concern		Unknown	7
PROCHILODONTIDAE	<i>Prochilodus rubrotaeniatus</i>	Full Migrant	Least Concern		Unknown	8
PROCHILODONTIDAE	<i>Semaprochilodus insignis</i>	Full Migrant	Least Concern		Unknown	7
PROCHILODONTIDAE	<i>Semaprochilodus kneri</i>	Full Migrant	Least Concern		Stable	2
PROCHILODONTIDAE	<i>Semaprochilodus laticeps</i>	Full Migrant	Least Concern		Stable	2
PROCHILODONTIDAE	<i>Semaprochilodus varii</i>	Full Migrant	Least Concern		Decreasing	2
SERRASALMIDAE	<i>Metynnis hypsauchen</i>	Full Migrant	Least Concern		Stable	7
SERRASALMIDAE	<i>Metynnis lippincottianus</i>	Full Migrant	Least Concern		Stable	11
SERRASALMIDAE	<i>Metynnis orinocensis</i>	Full Migrant	Data Deficient		Unknown	2

SERRASALMIDA E	<i>Myleus pacu</i>	Full Migrant	Near Threatened	A2cd	Decreasing	3
SERRASALMIDA E	<i>Myloplus levis</i>	Full Migrant	Least Concern		Unknown	3
SERRASALMIDA E	<i>Myloplus planquettei</i>	Full Migrant	Vulnerable	B1ab(iii,v)+2ab(iii,v)	Decreasing	2
SERRASALMIDA E	<i>Myloplus rubripinnis</i>	Full Migrant	Least Concern		Unknown	9
SERRASALMIDA E	<i>Myloplus ternetzi</i>	Altitudinal Migrant	Least Concern		Decreasing	3
SERRASALMIDA E	<i>Mylossoma albiscopum</i>	Full Migrant	Least Concern		Stable	5
SERRASALMIDA E	<i>Mylossoma duriventre</i>	Full Migrant	Least Concern		Stable	5
SERRASALMIDA E	<i>Piaractus brachipomus</i>	Full Migrant	Least Concern		Stable	5
SERRASALMIDA E	<i>Piaractus mesopotamicus</i>	Full Migrant	Near Threatened	A2bcde	Decreasing	5
SERRASALMIDA E	<i>Piaractus orinoquensis</i>	Full Migrant	Vulnerable	A2d	Decreasing	2
SERRASALMIDA E	<i>Prosomyleus rhomboidalis</i>	Full Migrant	Least Concern		Unknown	7
SERRASALMIDA E	<i>Pygocentrus cariba</i>	Altitudinal Migrant	Least Concern		Unknown	2
SERRASALMIDA E	<i>Serrasalmus maculatus</i>	Full Migrant	Least Concern		Unknown	7
TRIPORTHEIDA E	<i>Triportheus albus</i>	Full Migrant	Least Concern		Unknown	7
TRIPORTHEIDA E	<i>Triportheus angulatus</i>	Full Migrant	Least Concern		Unknown	7
TRIPORTHEIDA E	<i>Triportheus auritus</i>	Full Migrant	Least Concern		Unknown	7
TRIPORTHEIDA E	<i>Triportheus brachipomus</i>	Full Migrant	Least Concern		Unknown	6



TRIPORTHEIDA E	<i>Triportheus culter</i>	Full Migrant	Least Concern		Unknown	6
TRIPORTHEIDA E	<i>Triportheus curtus</i>	Full Migrant	Least Concern		Unknown	4
TRIPORTHEIDA E	<i>Triportheus nematurus</i>	Full Migrant	Least Concern		Unknown	4
TRIPORTHEIDA E	<i>Triportheus orinocensis</i>	Full Migrant	Least Concern		Stable	2
TRIPORTHEIDA E	<i>Triportheus pantanensis</i>	Full Migrant	Least Concern		Unknown	4
TRIPORTHEIDA E	<i>Triportheus pictus</i>	Full Migrant	Least Concern		Unknown	3
TRIPORTHEIDA E	<i>Triportheus rotundatus</i>	Full Migrant	Least Concern		Stable	9
TRIPORTHEIDA E	<i>Triportheus venezuelensis</i>	Full Migrant	Least Concern		Stable	2
CLUPEIDAE	<i>Alosa aestivalis</i>	Full Migrant	Vulnerable	A2b	Decreasing	2
CLUPEIDAE	<i>Alosa algeriensis</i>	Full Migrant	Endangered	B2ab(i,ii,iii,iv,v)	Decreasing	3
CLUPEIDAE	<i>Alosa alosa</i>	Full Migrant	Least Concern		Unknown	20
CLUPEIDAE	<i>Alosa caspia</i>	Full Migrant	Least Concern		Unknown	5
CLUPEIDAE	<i>Alosa fallax</i>	Full Migrant	Least Concern		Stable	39
CLUPEIDAE	<i>Alosa immaculata</i>	Full Migrant	Vulnerable	B2ab(v)	Decreasing	8
CLUPEIDAE	<i>Alosa kessleri</i>	Full Migrant	Least Concern		Unknown	5
CLUPEIDAE	<i>Alosa maeotica</i>	Full Migrant	Least Concern		Unknown	6
CLUPEIDAE	<i>Alosa pontica</i>	Full Migrant	Least Concern		Unknown	6
CLUPEIDAE	<i>Alosa pseudoharengus</i>	Full Migrant	Least Concern		Unknown	2
CLUPEIDAE	<i>Alosa sapidissima</i>	Full Migrant	Least Concern		Unknown	2
CLUPEIDAE	<i>Alosa tanaica</i>	Full Migrant	Least Concern		Unknown	7
CLUPEIDAE	<i>Alosa volgensis</i>	Full Migrant	Endangered	B2ab(iii,v)	Unknown	5
CLUPEIDAE	<i>Anodontostoma chacunda</i>	Full Migrant	Least Concern		Unknown	26

CLUPEIDAE	<i>Clupeonella caspia</i>	Full Migrant	Least Concern		Unknown	5
CLUPEIDAE	<i>Clupeonella cultriventris</i>	Full Migrant	Least Concern		Unknown	5
CLUPEIDAE	<i>Ethmalosa fimbriata</i>	Full Migrant	Least Concern		Unknown	20
CLUPEIDAE	<i>Herklotsichthys gotoi</i>	Full Migrant	Least Concern		Unknown	2
CLUPEIDAE	<i>Minyclupeoides dentibranchialis</i>	Full Migrant	Least Concern		Stable	2
CLUPEIDAE	<i>Nematalosa galathea</i>	Full Migrant	Least Concern		Unknown	9
CLUPEIDAE	<i>Nematalosa nasus</i>	Full Migrant	Least Concern		Unknown	24
CLUPEIDAE	<i>Pellonula leonensis</i>	Full Migrant	Least Concern		Unknown	21
CLUPEIDAE	<i>Pellonula vorax</i>	Full Migrant	Least Concern		Unknown	12
CLUPEIDAE	<i>Sprattus sprattus</i>	Full Migrant	Least Concern		Unknown	41
CLUPEIDAE	<i>Tenualosa ilisha</i>	Full Migrant	Least Concern		Decreasing	15
CLUPEIDAE	<i>Tenualosa macrura</i>	Full Migrant	Near Threatened	B2ab(iii)	Decreasing	2
CLUPEIDAE	<i>Tenualosa reevesii</i>	Full Migrant	Data Deficient		Decreasing	5
CLUPEIDAE	<i>Tenualosa thibaudeaui</i>	Full Migrant	Vulnerable	A2bcd	Decreasing	4
ENGRAULIDAE	<i>Anchoviella guianensis</i>	Full Migrant	Least Concern		Unknown	3
ENGRAULIDAE	<i>Coilia nasus</i>	Full Migrant	Endangered	A2bd	Decreasing	6
ENGRAULIDAE	<i>Engraulis albidus</i>	Full Migrant	Data Deficient		Unknown	5
ENGRAULIDAE	<i>Lycengraulis batesii</i>	Full Migrant	Least Concern		Unknown	3
ENGRAULIDAE	<i>Lycothrissa crocodilus</i>	Full Migrant	Least Concern		Unknown	6

ENGRAULIDAE	<i>Thryssa gautamiensis</i>	Full Migrant	Data Deficient		Unknown	3
ENGRAULIDAE	<i>Thryssa mystax</i>	Full Migrant	Least Concern		Unknown	17
PRISTIGASTERIDAE	<i>Opisthopterus tardoore</i>	Full Migrant	Least Concern		Unknown	12
PRISTIGASTERIDAE	<i>Pellona castelnaeana</i>	Full Migrant	Least Concern		Unknown	6
ACHEILOGNATHIDAE	<i>Acheilognathus asmussii</i>	Nomadic	Least Concern		Stable	2
BOTIIDAE	<i>Botia almorhae</i>	Altitudinal Migrant	Least Concern		Unknown	2
BOTIIDAE	<i>Botia birdi</i>	Altitudinal Migrant	Least Concern		Unknown	2
BOTIIDAE	<i>Syncrossus helodes</i>	Full Migrant	Least Concern		Unknown	4
BOTIIDAE	<i>Yasuhikotakia longidorsalis</i>	Full Migrant	Data Deficient		Unknown	2
BOTIIDAE	<i>Yasuhikotakia modesta</i>	Full Migrant	Least Concern		Unknown	4
BOTIIDAE	<i>Yasuhikotakia morleti</i>	Full Migrant	Least Concern		Unknown	2
CATOSTOMIDAE	<i>Catostomus catostomus</i>	Full Migrant	Least Concern		Stable	3
CATOSTOMIDAE	<i>Catostomus commersonii</i>	Full Migrant	Least Concern		Stable	2
COBITIDAE	<i>Acantopsis choirorhynchus</i>	Full Migrant	Least Concern		Unknown	6
COBITIDAE	<i>Aperioptus delphax</i>	Full Migrant	Least Concern		Unknown	4
COBITIDAE	<i>Cobitis tanaitica</i>	Full Migrant	Least Concern		Unknown	4
COBITIDAE	<i>Pangio anguillaris</i>	Full Migrant	Least Concern		Unknown	6
CYPRINIDAE	<i>Aptosyax grypus</i>	Full Migrant	Critically Endangered	A2acd	Decreasing	3
CYPRINIDAE	<i>Altigena yunnanensis</i>	Full Migrant	Data Deficient		Unknown	4

CYPRINIDAE	<i>Amblyrhynchichthys truncatus</i>	Full Migrant	Least Concern		Stable	5
CYPRINIDAE	<i>Bangana dero</i>	Full Migrant	Least Concern		Unknown	4
CYPRINIDAE	<i>Bangana devdevi</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Bangana diplostoma</i>	Full Migrant	Least Concern		Unknown	2
CYPRINIDAE	<i>Barbichthys laevis</i>	Full Migrant	Least Concern		Unknown	7
CYPRINIDAE	<i>Barbonymus altus</i>	Full Migrant	Least Concern		Stable	4
CYPRINIDAE	<i>Barbonymus balleroides</i>	Nomadic	Least Concern		Unknown	3
CYPRINIDAE	<i>Barbonymus gonionotus</i>	Full Migrant	Least Concern		Unknown	6
CYPRINIDAE	<i>Barbonymus schwanefeldii</i>	Full Migrant	Least Concern		Unknown	7
CYPRINIDAE	<i>Barbus barbus</i>	Full Migrant	Least Concern		Unknown	30
CYPRINIDAE	<i>Barbus ciscaucasicus</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Barbus plebejus</i>	Full Migrant	Least Concern		Stable	5
CYPRINIDAE	<i>Barbus prespensis</i>	Full Migrant	Least Concern		Stable	3
CYPRINIDAE	<i>Blicca bjoerkna</i>	Full Migrant	Least Concern		Unknown	42
CYPRINIDAE	<i>Capoeta barroisi</i>	Full Migrant	Endangered	B2ab(i,ii,iii,iv)	Decreasing	2
CYPRINIDAE	<i>Capoeta capoeta</i>	Full Migrant	Least Concern		Stable	5
CYPRINIDAE	<i>Catlocarpio siamensis</i>	Full Migrant	Critically Endangered	A2abcd	Decreasing	4
CYPRINIDAE	<i>Chagunius chagunio</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Chagunius nicholsi</i>	Full Migrant	Least Concern		Unknown	2
CYPRINIDAE	<i>Cirrhinus jullieni</i>	Full Migrant	Data Deficient		Unknown	4
CYPRINIDAE	<i>Cirrhinus microlepis</i>	Full Migrant	Vulnerable	A2ade	Decreasing	4

CYPRINIDAE	<i>Cirrhinus molitorella</i>	Full Migrant	Near Threatened		Decreasing	5
CYPRINIDAE	<i>Clypeobarbus hypsolepis</i>	Full Migrant	Least Concern		Unknown	6
CYPRINIDAE	<i>Cosmochilus falcifer</i>	Altitudinal Migrant	Least Concern		Unknown	2
CYPRINIDAE	<i>Cosmochilus harmandi</i>	Full Migrant	Least Concern		Decreasing	6
CYPRINIDAE	<i>Crossocheilus cobitis</i>	Full Migrant	Least Concern		Stable	7
CYPRINIDAE	<i>Crossocheilus reticulatus</i>	Full Migrant	Least Concern		Unknown	5
CYPRINIDAE	<i>Cyclocheilichthys apogon</i>	Full Migrant	Least Concern		Unknown	8
CYPRINIDAE	<i>Cyclocheilichthys armatus</i>	Full Migrant	Least Concern		Unknown	8
CYPRINIDAE	<i>Cyclocheilichthys enoplos</i>	Full Migrant	Least Concern		Decreasing	6
CYPRINIDAE	<i>Cyclocheilichthys furcatus</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Cyclocheilichthys heteronema</i>	Full Migrant	Least Concern		Unknown	7
CYPRINIDAE	<i>Cyclocheilichthys lagleri</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Cyclocheilichthys repasson</i>	Full Migrant	Least Concern		Stable	7
CYPRINIDAE	<i>Cyprinion macrostomum</i>	Full Migrant	Least Concern		Decreasing	4
CYPRINIDAE	<i>Cyprinus carpio</i>	Full Migrant	Vulnerable	A2ce	Unknown	24
CYPRINIDAE	<i>Diptychus maculatus</i>	Altitudinal Migrant	Least Concern		Decreasing	8
CYPRINIDAE	<i>Discherodontus ashmeadi</i>	Full Migrant	Least Concern		Stable	4

CYPRINIDAE	<i>Enteromius ablabes</i>	Full Migrant	Least Concern		Unknown	13
CYPRINIDAE	<i>Enteromius apleurogramma</i>	Full Migrant	Least Concern		Unknown	8
CYPRINIDAE	<i>Enteromius arcislongae</i>	Full Migrant	Least Concern		Stable	3
CYPRINIDAE	<i>Enteromius baudoni</i>	Full Migrant	Least Concern		Unknown	15
CYPRINIDAE	<i>Enteromius eutaenia</i>	Full Migrant	Least Concern		Unknown	12
CYPRINIDAE	<i>Enteromius kerstenii</i>	Full Migrant	Least Concern		Stable	13
CYPRINIDAE	<i>Enteromius liberiensis</i>	Full Migrant	Endangered	B1ab(iii)	Unknown	2
CYPRINIDAE	<i>Enteromius lineomaculatus</i>	Full Migrant	Least Concern		Unknown	14
CYPRINIDAE	<i>Enteromius litamba</i>	Full Migrant	Data Deficient		Unknown	3
CYPRINIDAE	<i>Enteromius macinensis</i>	Full Migrant	Least Concern		Unknown	10
CYPRINIDAE	<i>Enteromius macrops</i>	Full Migrant	Least Concern		Unknown	18
CYPRINIDAE	<i>Enteromius magdalenae</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Enteromius mattozi</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Enteromius nyanzae</i>	Full Migrant	Least Concern		Unknown	2
CYPRINIDAE	<i>Enteromius paludinosus</i>	Full Migrant	Least Concern		Unknown	16
CYPRINIDAE	<i>Enteromius pobeguini</i>	Full Migrant	Least Concern		Unknown	6
CYPRINIDAE	<i>Enteromius radiatus</i>	Full Migrant	Least Concern		Unknown	13

CYPRINIDAE	<i>Enteromius rapax</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Enteromius stigmatopygus</i>	Full Migrant	Least Concern		Unknown	16
CYPRINIDAE	<i>Enteromius sublineatus</i>	Full Migrant	Least Concern		Unknown	12
CYPRINIDAE	<i>Enteromius trimaculatus</i>	Full Migrant	Least Concern		Unknown	9
CYPRINIDAE	<i>Epalzeorhynchus frenatum</i>	Full Migrant	Least Concern		Decreasing	4
CYPRINIDAE	<i>Epalzeorhynchus kalopterum</i>	Full Migrant	Least Concern		Decreasing	2
CYPRINIDAE	<i>Garra annandalei</i>	Full Migrant	Least Concern		Unknown	4
CYPRINIDAE	<i>Garra dembeensis</i>	Full Migrant	Least Concern		Unknown	10
CYPRINIDAE	<i>Garra fasciacauda</i>	Full Migrant	Least Concern		Unknown	4
CYPRINIDAE	<i>Garra notata</i>	Full Migrant	Least Concern		Stable	3
CYPRINIDAE	<i>Garra salweenica</i>	Full Migrant	Data Deficient		Stable	3
CYPRINIDAE	<i>Gymnostomus lineatus</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Gymnostomus lobatus</i>	Full Migrant	Least Concern		Decreasing	4
CYPRINIDAE	<i>Gymnostomus ornatipinnis</i>	Full Migrant	Least Concern		Stable	3
CYPRINIDAE	<i>Gymnostomus siamensis</i>	Full Migrant	Least Concern		Stable	5
CYPRINIDAE	<i>Hampala dispar</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Hampala macrolepidota</i>	Full Migrant	Least Concern		Unknown	7
CYPRINIDAE	<i>Hypsibarbus lagleri</i>	Full Migrant	Vulnerable	A3c	Decreasing	3
CYPRINIDAE	<i>Hypsibarbus malcolmi</i>	Full Migrant	Least Concern		Stable	4

CYPRINIDAE	<i>Hypsibarbus pierrei</i>	Full Migrant	Data Deficient		Decreasing	4
CYPRINIDAE	<i>Hypsibarbus vernayi</i>	Full Migrant	Least Concern		Stable	6
CYPRINIDAE	<i>Incisilabeo behri</i>	Full Migrant	Vulnerable	A2d+3c	Decreasing	5
CYPRINIDAE	<i>Labeo altivelis</i>	Full Migrant	Least Concern		Unknown	5
CYPRINIDAE	<i>Labeo bata</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Labeo capensis</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Labeo chariensis</i>	Full Migrant	Least Concern		Unknown	2
CYPRINIDAE	<i>Labeo chrysophekadion</i>	Full Migrant	Least Concern		Unknown	6
CYPRINIDAE	<i>Labeo congoro</i>	Full Migrant	Least Concern		Unknown	6
CYPRINIDAE	<i>Labeo coubie</i>	Full Migrant	Least Concern		Unknown	23
CYPRINIDAE	<i>Labeo cylindricus</i>	Full Migrant	Least Concern		Unknown	14
CYPRINIDAE	<i>Labeo dyocheilus</i>	Full Migrant	Least Concern		Unknown	5
CYPRINIDAE	<i>Labeo lunatus</i>	Full Migrant	Least Concern		Unknown	5
CYPRINIDAE	<i>Labeo mesops</i>	Full Migrant	Critically Endangered	A2ac+3cd	Decreasing	2
CYPRINIDAE	<i>Labeo molybdinus</i>	Full Migrant	Least Concern		Unknown	6
CYPRINIDAE	<i>Labeo nandina</i>	Full Migrant	Near Threatened		Decreasing	3
CYPRINIDAE	<i>Labeo pangusia</i>	Full Migrant	Near Threatened		Decreasing	4
CYPRINIDAE	<i>Labeo parvus</i>	Full Migrant	Least Concern		Unknown	23
CYPRINIDAE	<i>Labeo pierrei</i>	Full Migrant	Vulnerable	A2ad+3c	Decreasing	4
CYPRINIDAE	<i>Labeo rosae</i>	Full Migrant	Least Concern		Unknown	5
CYPRINIDAE	<i>Labeo ruddi</i>	Full Migrant	Data Deficient		Unknown	6
CYPRINIDAE	<i>Labeo umbratus</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Labeo victorianus</i>	Full Migrant	Least Concern		Decreasing	5
CYPRINIDAE	<i>Labeobarbus aeneus</i>	Full Migrant	Least Concern		Unknown	4
CYPRINIDAE	<i>Labeobarbus altianalis</i>	Full Migrant	Least Concern		Unknown	6



CYPRINIDAE	<i>Labeobarbus kimberleyensis</i>	Full Migrant	Near Threatened	B2b(ii,iii,v)	Decreasing	3
CYPRINIDAE	<i>Labeobarbus marequensis</i>	Full Migrant	Least Concern		Unknown	6
CYPRINIDAE	<i>Labeobarbus natalensis</i>	Full Migrant	Least Concern		Unknown	2
CYPRINIDAE	<i>Labeobarbus nelspruitensis</i>	Full Migrant	Near Threatened	B1b(iii,iv)	Decreasing	2
CYPRINIDAE	<i>Labeobarbus polylepis</i>	Full Migrant	Least Concern		Unknown	2
CYPRINIDAE	<i>Labeobarbus pungweensis</i>	Full Migrant	Least Concern		Unknown	2
CYPRINIDAE	<i>Labiobarbus leptocheilus</i>	Full Migrant	Least Concern		Stable	8
CYPRINIDAE	<i>Labiobarbus siamensis</i>	Full Migrant	Least Concern		Unknown	4
CYPRINIDAE	<i>Lobocheilos melanotaenia</i>	Full Migrant	Least Concern		Unknown	4
CYPRINIDAE	<i>Luciobarbus brachycephalus</i>	Full Migrant	Vulnerable	A2cd	Decreasing	12
CYPRINIDAE	<i>Luciobarbus capito</i>	Full Migrant	Vulnerable	A2cd	Decreasing	12
CYPRINIDAE	<i>Luciobarbus caspius</i>	Full Migrant	Least Concern		Decreasing	6
CYPRINIDAE	<i>Luciobarbus esocinus</i>	Full Migrant	Vulnerable	A2de	Decreasing	4
CYPRINIDAE	<i>Luciobarbus graellsii</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Luciobarbus longiceps</i>	Full Migrant	Endangered	A2bcde	Decreasing	3
CYPRINIDAE	<i>Luciobarbus subquincunciatus</i>	Full Migrant	Critically Endangered	A2cde	Decreasing	4
CYPRINIDAE	<i>Luciocyprinus langsoni</i>	Full Migrant	Vulnerable	A2cde	Decreasing	2

CYPRINIDAE	<i>Mekongina erythrospila</i>	Full Migrant	Near Threatened		Decreasing	4
CYPRINIDAE	<i>Mystacoleucus atridorsalis</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Neolissochilus hexagonolepis</i>	Full Migrant	Near Threatened		Decreasing	7
CYPRINIDAE	<i>Oreinus dainellii</i>	Altitudinal Migrant	Least Concern		Stable	3
CYPRINIDAE	<i>Osteochilus lini</i>	Full Migrant	Least Concern		Unknown	4
CYPRINIDAE	<i>Osteochilus microcephalus</i>	Full Migrant	Least Concern		Stable	7
CYPRINIDAE	<i>Osteochilus schlegelii</i>	Full Migrant	Data Deficient		Decreasing	6
CYPRINIDAE	<i>Osteochilus vittatus</i>	Full Migrant	Least Concern		Stable	8
CYPRINIDAE	<i>Osteochilus waandersii</i>	Full Migrant	Least Concern		Unknown	8
CYPRINIDAE	<i>Probarbus jullieni</i>	Full Migrant	Critically Endangered	A2d	Decreasing	5
CYPRINIDAE	<i>Probarbus labeamajor</i>	Full Migrant	Endangered	A2abcd	Decreasing	3
CYPRINIDAE	<i>Probarbus labeaminor</i>	Full Migrant	Near Threatened		Decreasing	3
CYPRINIDAE	<i>Procypris mera</i>	Full Migrant	Data Deficient		Unknown	2
CYPRINIDAE	<i>Puntigrus partipentazona</i>	Full Migrant	Least Concern		Stable	7
CYPRINIDAE	<i>Puntioplites bulu</i>	Full Migrant	Least Concern		Unknown	5
CYPRINIDAE	<i>Puntioplites falcifer</i>	Full Migrant	Least Concern		Unknown	4
CYPRINIDAE	<i>Puntioplites proctozystron</i>	Full Migrant	Least Concern		Unknown	5
CYPRINIDAE	<i>Puntioplites waandersi</i>	Full Migrant	Least Concern		Unknown	6
CYPRINIDAE	<i>Puntius brevis</i>	Full Migrant	Least Concern		Unknown	6

CYPRINIDAE	<i>Scaphiodonichthys acanthopterus</i>	Full Migrant	Least Concern		Unknown	5
CYPRINIDAE	<i>Scaphognathops bandanensis</i>	Full Migrant	Vulnerable	A3c	Decreasing	4
CYPRINIDAE	<i>Scaphognathops stejnegeri</i>	Full Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Schizocypris brucei</i>	Full Migrant	Vulnerable	A2c+3c	Decreasing	3
CYPRINIDAE	<i>Schizopyge curvifrons</i>	Full Migrant	Least Concern		Stable	2
CYPRINIDAE	<i>Schizothorax argentatus</i>	Altitudinal Migrant	Vulnerable	A3d	Decreasing	2
CYPRINIDAE	<i>Schizothorax esocinus</i>	Full Migrant	Vulnerable	A2cde+3cde	Decreasing	4
CYPRINIDAE	<i>Schizothorax plagiosomus</i>	Altitudinal Migrant	Vulnerable	A2b	Decreasing	6
CYPRINIDAE	<i>Schizothorax progastus</i>	Altitudinal Migrant	Least Concern		Unknown	3
CYPRINIDAE	<i>Schizothorax richardsonii</i>	Full Migrant	Vulnerable	A2acd+3cde+4acde	Decreasing	5
CYPRINIDAE	<i>Semiplotus manipurensis</i>	Full Migrant	Data Deficient		Unknown	2
CYPRINIDAE	<i>Sikukia gudgeri</i>	Full Migrant	Data Deficient		Unknown	3
CYPRINIDAE	<i>Thynnichthys thynnoides</i>	Full Migrant	Least Concern		Stable	6
CYPRINIDAE	<i>Tor khudree</i>	Altitudinal Migrant	Least Concern		Increasing	2
CYPRINIDAE	<i>Tor laterivittatus</i>	Altitudinal Migrant	Data Deficient		Decreasing	3
CYPRINIDAE	<i>Tor putitora</i>	Altitudinal Migrant	Endangered	A2abcd	Decreasing	5
CYPRINIDAE	<i>Tor sinensis</i>	Altitudinal Migrant	Vulnerable	B2ab(iii)	Unknown	4
CYPRINIDAE	<i>Tor tambda</i>	Full Migrant	Data Deficient		Decreasing	7
CYPRINIDAE	<i>Tor tambroides</i>	Full Migrant	Data Deficient		Decreasing	6
CYPRINIDAE	<i>Tor tor</i>	Altitudinal Migrant	Data Deficient		Unknown	2

DANIONIDAE	<i>Amblypharyngodon melettinus</i>	Full Migrant	Least Concern		Unknown	2
DANIONIDAE	<i>Barilius bendelisis</i>	Full Migrant	Least Concern		Stable	6
DANIONIDAE	<i>Engraulicypris sardella</i>	Full Migrant	Least Concern		Stable	3
DANIONIDAE	<i>Esomus longimanus</i>	Full Migrant	Data Deficient		Stable	4
DANIONIDAE	<i>Esomus metallicus</i>	Full Migrant	Least Concern		Stable	6
DANIONIDAE	<i>Leptocypris niloticus</i>	Full Migrant	Least Concern		Unknown	15
DANIONIDAE	<i>Luciosoma bleekeri</i>	Full Migrant	Least Concern		Stable	4
DANIONIDAE	<i>Opsaridium microcephalum</i>	Full Migrant	Least Concern		Decreasing	3
DANIONIDAE	<i>Opsaridium microlepis</i>	Full Migrant	Vulnerable	A3cd	Decreasing	3
DANIONIDAE	<i>Opsaridium ubangiense</i>	Full Migrant	Least Concern		Unknown	6
DANIONIDAE	<i>Raiamas nigeriensis</i>	Full Migrant	Least Concern		Unknown	7
DANIONIDAE	<i>Raiamas senegalensis</i>	Full Migrant	Least Concern		Unknown	18
DANIONIDAE	<i>Rasbora aurotaenia</i>	Full Migrant	Least Concern		Unknown	5
DANIONIDAE	<i>Rasbora borapetensis</i>	Full Migrant	Least Concern		Stable	5
DANIONIDAE	<i>Rasbora daniconius</i>	Full Migrant	Least Concern		Unknown	13
DANIONIDAE	<i>Salmostoma bacaila</i>	Full Migrant	Least Concern		Stable	5
DANIONIDAE	<i>Thryssocypris tonlesapensis</i>	Full Migrant	Least Concern		Stable	2

GOBIONIDAE	<i>Saugogobio dabryi</i>	Full Migrant	Least Concern		Stable	6
GOBIONIDAE	<i>Squalidus mantschuricus</i>	Full Migrant	Least Concern		Unknown	3
GYRINOCHEILID AE	<i>Gyrinocheilus aymonieri</i>	Full Migrant	Least Concern		Decreasing	6
GYRINOCHEILID AE	<i>Gyrinocheilus pennocki</i>	Full Migrant	Least Concern		Unknown	3
LEPTOBARBIDAE	<i>Leptobarbus rubripinna</i>	Full Migrant	Data Deficient		Unknown	4
LEUCISCIDAE	<i>Abramis brama</i>	Full Migrant	Least Concern		Unknown	46
LEUCISCIDAE	<i>Alburnus alburnus</i>	Full Migrant	Least Concern		Unknown	41
LEUCISCIDAE	<i>Alburnus chalcoides</i>	Full Migrant	Least Concern		Unknown	4
LEUCISCIDAE	<i>Alburnus leobergi</i>	Full Migrant	Least Concern		Unknown	2
LEUCISCIDAE	<i>Alburnus mento</i>	Full Migrant	Least Concern		Unknown	2
LEUCISCIDAE	<i>Alburnus sarmaticus</i>	Full Migrant	Endangered	B2ab(v)	Unknown	5
LEUCISCIDAE	<i>Alburnus schischkovi</i>	Full Migrant	Endangered	B1ab(ii,iii,v)+2ab(i,i,iii,v)	Unknown	2
LEUCISCIDAE	<i>Alburnus scoranza</i>	Full Migrant	Least Concern		Unknown	3
LEUCISCIDAE	<i>Ballerus ballerus</i>	Full Migrant	Least Concern		Unknown	27
LEUCISCIDAE	<i>Ballerus sapa</i>	Full Migrant	Least Concern		Unknown	23
LEUCISCIDAE	<i>Chondrostoma nasus</i>	Full Migrant	Least Concern		Unknown	26
LEUCISCIDAE	<i>Dionda diaboli</i>	Altitudinal Migrant	Endangered	B2ab(i,iii,v)	Decreasing	2
LEUCISCIDAE	<i>Leuciscus aspilus</i>	Full Migrant	Least Concern		Unknown	40
LEUCISCIDAE	<i>Leuciscus burdigalensis</i>	Full Migrant	Least Concern		Unknown	3
LEUCISCIDAE	<i>Leuciscus idus</i>	Full Migrant	Least Concern		Unknown	43
LEUCISCIDAE	<i>Leuciscus leuciscus</i>	Full Migrant	Least Concern		Unknown	34

LEUCISCIDAE	<i>Pelecus cultratus</i>	Full Migrant	Least Concern		Unknown	23
LEUCISCIDAE	<i>Pseudaspilus brandtii</i>	Full Migrant	Least Concern		Unknown	5
LEUCISCIDAE	<i>Pseudaspilus hakonensis</i>	Full Migrant	Least Concern		Stable	5
LEUCISCIDAE	<i>Pseudaspilus sachalinensis</i>	Full Migrant	Least Concern		Stable	2
LEUCISCIDAE	<i>Rhynchocypris mantschuricus</i>	Nomadic	Least Concern		Stable	3
LEUCISCIDAE	<i>Rutilus caspicus</i>	Full Migrant	Least Concern		Unknown	4
LEUCISCIDAE	<i>Rutilus frisii</i>	Full Migrant	Least Concern		Unknown	8
LEUCISCIDAE	<i>Rutilus heckelii</i>	Full Migrant	Least Concern		Unknown	7
LEUCISCIDAE	<i>Rutilus rutilus</i>	Full Migrant	Least Concern		Unknown	52
LEUCISCIDAE	<i>Squalius cephalus</i>	Full Migrant	Least Concern		Unknown	42
LEUCISCIDAE	<i>Squalius squalus</i>	Full Migrant	Least Concern		Unknown	5
LEUCISCIDAE	<i>Vimba vimba</i>	Full Migrant	Least Concern		Unknown	33
NEMACHEILIDAE	<i>Barbatula barbatula</i>	Full Migrant	Least Concern		Unknown	35
NEMACHEILIDAE	<i>Nemacheilus corica</i>	Full Migrant	Least Concern		Unknown	2
NEMACHEILIDAE	<i>Schistura khamtanhi</i>	Full Migrant	Data Deficient		Unknown	2
NEMACHEILIDAE	<i>Schistura sikmaiensis</i>	Full Migrant	Least Concern		Unknown	2
PSILORHYNCHIDAE	<i>Psilorhynchus gracilis</i>	Altitudinal Migrant	Least Concern		Unknown	3
PSILORHYNCHIDAE	<i>Psilorhynchus pseudecheneis</i>	Full Migrant	Least Concern		Unknown	2
PSILORHYNCHIDAE	<i>Psilorhynchus sucatio</i>	Altitudinal Migrant	Least Concern		Stable	3
XENOCYPRIDIDAE	<i>Chanodichthys abramoides</i>	Full Migrant	Least Concern		Unknown	2

XENOCYPRIDID AE	<i>Chanodichthys erythropterus</i>	Full Migrant	Least Concern		Increasing	7
XENOCYPRIDID AE	<i>Chanodichthys mongolicus</i>	Full Migrant	Least Concern		Increasing	3
XENOCYPRIDID AE	<i>Chanodichthys oxycephalus</i>	Full Migrant	Least Concern		Stable	4
XENOCYPRIDID AE	<i>Ctenopharyngodon idella</i>	Full Migrant	Least Concern		Unknown	3
XENOCYPRIDID AE	<i>Culter alburnus</i>	Full Migrant	Least Concern		Stable	3
XENOCYPRIDID AE	<i>Elopichthys bambusa</i>	Full Migrant	Least Concern		Increasing	3
XENOCYPRIDID AE	<i>Hypophthalmichthys harmandi</i>	Full Migrant	Data Deficient		Unknown	2
XENOCYPRIDID AE	<i>Hypophthalmichthys molitrix</i>	Full Migrant	Near Threatened		Decreasing	3
XENOCYPRIDID AE	<i>Luciobrama macrocephalus</i>	Full Migrant	Data Deficient		Decreasing	2
XENOCYPRIDID AE	<i>Macrochirichthys macrochirus</i>	Full Migrant	Least Concern		Decreasing	7
XENOCYPRIDID AE	<i>Megalobrama mantschuricus</i>	Full Migrant	Least Concern		Unknown	4
XENOCYPRIDID AE	<i>Mylopharyngodon piceus</i>	Full Migrant	Least Concern		Stable	3
XENOCYPRIDID AE	<i>Parabramis pekinensis</i>	Full Migrant	Least Concern		Decreasing	2
XENOCYPRIDID AE	<i>Parachela siamensis</i>	Full Migrant	Least Concern		Stable	4
XENOCYPRIDID AE	<i>Parachela williaminae</i>	Full Migrant	Least Concern		Stable	3
XENOCYPRIDID AE	<i>Paralaubuca barroni</i>	Full Migrant	Least Concern		Stable	5
XENOCYPRIDID AE	<i>Paralaubuca riveroi</i>	Full Migrant	Least Concern		Stable	4

XENOCYPRIDID AE	<i>Paralaubuca typus</i>	Full Migrant	Least Concern		Stable	4
ANABLEPIDAE	<i>Anableps dowei</i>	Full Migrant	Least Concern		Unknown	5
NOTHOBRANCH IIDAE	<i>Epiplatys sexfasciatus</i>	Full Migrant	Least Concern		Unknown	7
POECILIIDAE	<i>Gambusia marshi</i>	Full Migrant	Least Concern		Unknown	2
ELOPIDAE	<i>Elops senegalensis</i>	Full Migrant	Data Deficient		Unknown	18
MEGALOPIDAE	<i>Megalops atlanticus</i>	Full Migrant	Vulnerable	A2bd	Decreasing	65
MEGALOPIDAE	<i>Megalops cyprinoides</i>	Full Migrant	Data Deficient		Unknown	63
ESOCIDAE	<i>Esox reichertii</i>	Full Migrant	Least Concern		Unknown	3
GADIDAE	<i>Microgadus tomcod</i>	Full Migrant	Least Concern		Stable	2
GASTEROSTEID AE	<i>Gasterosteus aculeatus</i>	Full Migrant	Least Concern		Unknown	38
GASTEROSTEID AE	<i>Gasterosteus nipponicus</i>	Full Migrant	Least Concern		Stable	4
GASTEROSTEID AE	<i>Gasterosteus wheatlandi</i>	Full Migrant	Least Concern		Stable	2
GASTEROSTEID AE	<i>Pungitius sinensis</i>	Altitudinal Migrant	Vulnerable	A2c	Decreasing	5
GOBIESOCIDAE	<i>Gobiesox cephalus</i>	Full Migrant	Data Deficient		Unknown	17
GOBIESOCIDAE	<i>Gobiesox potamius</i>	Full Migrant	Least Concern		Unknown	3
ELEOTRIDAE	<i>Belobranchus belobranchus</i>	Full Migrant	Least Concern		Unknown	8
ELEOTRIDAE	<i>Belobranchus segura</i>	Full Migrant	Least Concern		Unknown	5
ELEOTRIDAE	<i>Bostrychus africanus</i>	Full Migrant	Least Concern		Unknown	17



ELEOTRIDAE	<i>Bostrychus sinensis</i>	Full Migrant	Least Concern		Stable	20
ELEOTRIDAE	<i>Bunaka gyrinoides</i>	Full Migrant	Least Concern		Unknown	18
ELEOTRIDAE	<i>Butis amboinensis</i>	Full Migrant	Least Concern		Unknown	16
ELEOTRIDAE	<i>Butis butis</i>	Full Migrant	Least Concern		Stable	31
ELEOTRIDAE	<i>Dormitator latifrons</i>	Full Migrant	Least Concern		Stable	10
ELEOTRIDAE	<i>Dormitator maculatus</i>	Full Migrant	Least Concern		Stable	42
ELEOTRIDAE	<i>Eleotris acanthopomus</i>	Full Migrant	Least Concern		Stable	22
ELEOTRIDAE	<i>Eleotris amblyopsis</i>	Full Migrant	Least Concern		Stable	20
ELEOTRIDAE	<i>Eleotris daganensis</i>	Full Migrant	Least Concern		Unknown	17
ELEOTRIDAE	<i>Eleotris fusca</i>	Full Migrant	Least Concern		Unknown	34
ELEOTRIDAE	<i>Eleotris oxycephala</i>	Full Migrant	Least Concern		Unknown	7
ELEOTRIDAE	<i>Eleotris perniger</i>	Full Migrant	Least Concern		Unknown	34
ELEOTRIDAE	<i>Eleotris pisonis</i>	Full Migrant	Least Concern		Stable	6
ELEOTRIDAE	<i>Eleotris senegalensis</i>	Full Migrant	Least Concern		Unknown	17
ELEOTRIDAE	<i>Eleotris vittata</i>	Full Migrant	Least Concern		Unknown	18
ELEOTRIDAE	<i>Giuris margaritaceus</i>	Full Migrant	Least Concern		Unknown	25
ELEOTRIDAE	<i>Gobiomorus dormitor</i>	Full Migrant	Least Concern		Unknown	34
ELEOTRIDAE	<i>Guavina guavina</i>	Full Migrant	Least Concern		Unknown	20
ELEOTRIDAE	<i>Ophiocara porocephala</i>	Full Migrant	Least Concern		Stable	31
ELEOTRIDAE	<i>Oxyeleotris marmorata</i>	Full Migrant	Least Concern		Unknown	8

GOBIIDAE	<i>Acentrogobius caninus</i>	Full Migrant	Least Concern		Unknown	22
GOBIIDAE	<i>Awaous acritosus</i>	Full Migrant	Least Concern		Stable	2
GOBIIDAE	<i>Awaous aeneofuscus</i>	Full Migrant	Least Concern		Unknown	11
GOBIIDAE	<i>Awaous banana</i>	Altitudinal Migrant	Least Concern		Stable	14
GOBIIDAE	<i>Awaous bustamantei</i>	Full Migrant	Vulnerable	D2	Unknown	2
GOBIIDAE	<i>Awaous grammepomus</i>	Full Migrant	Least Concern		Unknown	24
GOBIIDAE	<i>Awaous guamensis</i>	Full Migrant	Least Concern		Unknown	5
GOBIIDAE	<i>Awaous jayakari</i>	Full Migrant	Least Concern		Unknown	2
GOBIIDAE	<i>Awaous lateristriga</i>	Full Migrant	Least Concern		Unknown	16
GOBIIDAE	<i>Awaous ocellaris</i>	Full Migrant	Least Concern		Stable	9
GOBIIDAE	<i>Awaous tajasica</i>	Full Migrant	Least Concern		Unknown	2
GOBIIDAE	<i>Bathygobius fuscus</i>	Full Migrant	Least Concern		Stable	44
GOBIIDAE	<i>Benthophilus ctenolepidus</i>	Full Migrant	Least Concern		Unknown	3
GOBIIDAE	<i>Benthophilus ragimovi</i>	Full Migrant	Least Concern		Unknown	2
GOBIIDAE	<i>Benthophilus spinosus</i>	Full Migrant	Least Concern		Unknown	4
GOBIIDAE	<i>Boleophthalmus dussumieri</i>	Full Migrant	Least Concern		Unknown	12
GOBIIDAE	<i>Caragobius urolepis</i>	Full Migrant	Least Concern		Unknown	18
GOBIIDAE	<i>Cotylopus acutipinnis</i>	Full Migrant	Data Deficient		Unknown	2
GOBIIDAE	<i>Ctenogobius boleosoma</i>	Full Migrant	Least Concern		Stable	43

GOBIIDAE	<i>Ctenogobius claytonii</i>	Full Migrant	Vulnerable	B2ab(ii,iii,iv)	Unknown	2
GOBIIDAE	<i>Ctenogobius fasciatus</i>	Full Migrant	Least Concern		Unknown	29
GOBIIDAE	<i>Ctenogobius pseudofasciatus</i>	Full Migrant	Least Concern		Unknown	13
GOBIIDAE	<i>Drombus globiceps</i>	Full Migrant	Least Concern		Unknown	5
GOBIIDAE	<i>Evorthodus lyricus</i>	Full Migrant	Least Concern		Unknown	39
GOBIIDAE	<i>Favonigobius reichei</i>	Full Migrant	Least Concern		Unknown	18
GOBIIDAE	<i>Glossogobius aureus</i>	Full Migrant	Least Concern		Stable	11
GOBIIDAE	<i>Glossogobius giuris</i>	Full Migrant	Least Concern		Unknown	38
GOBIIDAE	<i>Gobiodon rivulatus</i>	Full Migrant	Least Concern		Unknown	51
GOBIIDAE	<i>Gobioides broussonnetii</i>	Full Migrant	Least Concern		Unknown	16
GOBIIDAE	<i>Gobioides sagitta</i>	Full Migrant	Least Concern		Unknown	10
GOBIIDAE	<i>Gobionellus occidentalis</i>	Full Migrant	Least Concern		Unknown	10
GOBIIDAE	<i>Gobionellus oceanicus</i>	Full Migrant	Least Concern		Stable	39
GOBIIDAE	<i>Gymnogobius castaneus</i>	Full Migrant	Least Concern		Decreasing	3
GOBIIDAE	<i>Gymnogobius opperiens</i>	Full Migrant	Least Concern		Unknown	5
GOBIIDAE	<i>Lentipes crittersius</i>	Full Migrant	Least Concern		Unknown	3
GOBIIDAE	<i>Lentipes kaaea</i>	Full Migrant	Least Concern		Unknown	5
GOBIIDAE	<i>Lentipes venustus</i>	Full Migrant	Least Concern		Unknown	2

GOBIIDAE	<i>Leucopsarion petersii</i>	Full Migrant	Least Concern		Decreasing	2
GOBIIDAE	<i>Microgobius gulosus</i>	Full Migrant	Least Concern		Unknown	2
GOBIIDAE	<i>Mugilogobius platystoma</i>	Full Migrant	Least Concern		Unknown	4
GOBIIDAE	<i>Mugilogobius rambaiae</i>	Full Migrant	Least Concern		Unknown	6
GOBIIDAE	<i>Oligolepis acutipennis</i>	Full Migrant	Least Concern		Unknown	11
GOBIIDAE	<i>Oligolepis stomias</i>	Full Migrant	Data Deficient		Unknown	4
GOBIIDAE	<i>Papuligobius ocellatus</i>	Full Migrant	Least Concern		Unknown	4
GOBIIDAE	<i>Periophthalmus barbarus</i>	Full Migrant	Least Concern		Unknown	18
GOBIIDAE	<i>Pomatoschistus microps</i>	Full Migrant	Least Concern		Unknown	15
GOBIIDAE	<i>Ponticola ratan</i>	Full Migrant	Least Concern		Stable	6
GOBIIDAE	<i>Pseudapocryptes elongatus</i>	Full Migrant	Least Concern		Unknown	11
GOBIIDAE	<i>Rhinogobius brunneus</i>	Full Migrant	Data Deficient		Unknown	3
GOBIIDAE	<i>Rhinogobius giurinus</i>	Full Migrant	Least Concern		Unknown	6
GOBIIDAE	<i>Rhinogobius lindbergi</i>	Full Migrant	Least Concern		Stable	2
GOBIIDAE	<i>Sicydium brevifile</i>	Full Migrant	Least Concern		Unknown	3
GOBIIDAE	<i>Sicydium multipunctatum</i>	Full Migrant	Least Concern		Unknown	4
GOBIIDAE	<i>Sicydium plumieri</i>	Full Migrant	Data Deficient		Unknown	4
GOBIIDAE	<i>Sicydium punctatum</i>	Full Migrant	Least Concern		Decreasing	31

GOBIIDAE	<i>Sicyopterus cynocephalus</i>	Full Migrant	Least Concern		Unknown	6
GOBIIDAE	<i>Sicyopterus lagocephalus</i>	Full Migrant	Least Concern		Stable	24
GOBIIDAE	<i>Sicyopterus longifilis</i>	Full Migrant	Least Concern		Unknown	4
GOBIIDAE	<i>Sicyopterus ouwensi</i>	Full Migrant	Data Deficient		Unknown	2
GOBIIDAE	<i>Sicyopterus pugnans</i>	Full Migrant	Least Concern		Unknown	2
GOBIIDAE	<i>Sicyopus discordipinnis</i>	Full Migrant	Least Concern		Unknown	4
GOBIIDAE	<i>Sicyopus zosterophorus</i>	Full Migrant	Least Concern		Unknown	13
GOBIIDAE	<i>Smilosicyopus chloe</i>	Full Migrant	Least Concern		Stable	2
GOBIIDAE	<i>Smilosicyopus fehlmanni</i>	Full Migrant	Least Concern		Stable	7
GOBIIDAE	<i>Smilosicyopus leprurus</i>	Full Migrant	Least Concern		Unknown	7
GOBIIDAE	<i>Smilosicyopus pentecost</i>	Full Migrant	Data Deficient		Unknown	2
GOBIIDAE	<i>Stenogobius beauforti</i>	Full Migrant	Least Concern		Unknown	2
GOBIIDAE	<i>Stenogobius fehlmanni</i>	Full Migrant	Least Concern		Unknown	2
GOBIIDAE	<i>Stenogobius hoesei</i>	Full Migrant	Least Concern		Unknown	2
GOBIIDAE	<i>Stenogobius laterisquamatus</i>	Full Migrant	Least Concern		Unknown	2
GOBIIDAE	<i>Stenogobius psilosinionus</i>	Full Migrant	Least Concern		Unknown	3
GOBIIDAE	<i>Stenogobius yateiensis</i>	Full Migrant	Least Concern		Stable	2

GOBIIDAE	<i>Stigmatogobius borneensis</i>	Full Migrant	Data Deficient		Unknown	2
GOBIIDAE	<i>Stiphodon birdsong</i>	Full Migrant	Least Concern		Unknown	4
GOBIIDAE	<i>Stiphodon elegans</i>	Full Migrant	Least Concern		Stable	5
GOBIIDAE	<i>Stiphodon hydroreibatus</i>	Full Migrant	Data Deficient		Unknown	3
GOBIIDAE	<i>Stiphodon mele</i>	Full Migrant	Data Deficient		Unknown	2
GOBIIDAE	<i>Stiphodon pelewensis</i>	Full Migrant	Least Concern		Unknown	11
GOBIIDAE	<i>Stiphodon percnopterygionus</i>	Full Migrant	Data Deficient		Unknown	5
GOBIIDAE	<i>Stiphodon rutilaureus</i>	Full Migrant	Least Concern		Unknown	7
GOBIIDAE	<i>Stiphodon sapphirinus</i>	Full Migrant	Least Concern		Stable	2
GOBIIDAE	<i>Stiphodon semoni</i>	Full Migrant	Least Concern		Unknown	7
GOBIIDAE	<i>Stiphodon surrufus</i>	Full Migrant	Least Concern		Unknown	8
GOBIIDAE	<i>Yongeichthys nebulosus</i>	Full Migrant	Least Concern		Unknown	21
GOBIIDAE	<i>Yongeichthys thomasi</i>	Full Migrant	Least Concern		Unknown	11
RHYACICHTHYIDAE	<i>Rhyacichthys guilberti</i>	Full Migrant	Data Deficient		Decreasing	2
KNERIIDAE	<i>Kneria auriculata</i>	Full Migrant	Least Concern		Unknown	4
KNERIIDAE	<i>Kneria polli</i>	Full Migrant	Least Concern		Unknown	2
RHAMPHICHTHYIDAE	<i>Rhamphichthys pantherinus</i>	Full Migrant	Least Concern		Unknown	7
LEPISOSTEIDAE	<i>Lepisosteus oculatus</i>	Full Migrant	Least Concern		Stable	3

MUGILIDAE	<i>Agonostomus telfairii</i>	Full Migrant	Least Concern		Unknown	5
MUGILIDAE	<i>Aldrichetta forsteri</i>	Full Migrant	Least Concern		Stable	2
MUGILIDAE	<i>Cestraeus oxyrhyncus</i>	Full Migrant	Data Deficient		Unknown	5
MUGILIDAE	<i>Cestraeus plicatilis</i>	Full Migrant	Data Deficient		Unknown	4
MUGILIDAE	<i>Chelon ramada</i>	Full Migrant	Least Concern		Unknown	45
MUGILIDAE	<i>Dajaus monticola</i>	Full Migrant	Least Concern		Stable	27
MUGILIDAE	<i>Joturus pichardi</i>	Full Migrant	Least Concern		Decreasing	9
MUGILIDAE	<i>Minimugil cascasia</i>	Full Migrant	Least Concern		Unknown	3
MUGILIDAE	<i>Planiliza abu</i>	Full Migrant	Least Concern		Stable	6
MUGILIDAE	<i>Planiliza subviridis</i>	Full Migrant	Least Concern		Unknown	40
GALAXIIDAE	<i>Aplochiton taeniatus</i>	Full Migrant	Least Concern		Decreasing	2
GALAXIIDAE	<i>Aplochiton zebra</i>	Altitudinal Migrant	Least Concern		Unknown	3
GALAXIIDAE	<i>Galaxias brevipinnis</i>	Full Migrant	Least Concern		Unknown	2
GALAXIIDAE	<i>Galaxias maculatus</i>	Full Migrant	Least Concern		Unknown	5
OSMERIDAE	<i>Hypomesus japonicus</i>	Full Migrant	Least Concern		Stable	4
OSMERIDAE	<i>Hypomesus nipponensis</i>	Full Migrant	Least Concern		Stable	3
OSMERIDAE	<i>Osmerus dentex</i>	Full Migrant	Least Concern		Unknown	5
OSMERIDAE	<i>Osmerus eperlanus</i>	Full Migrant	Least Concern		Unknown	20
OSMERIDAE	<i>Osmerus mordax</i>	Full Migrant	Least Concern		Unknown	2
OSMERIDAE	<i>Spirinchus thaleichthys</i>	Full Migrant	Least Concern		Unknown	2

OSMERIDAE	<i>Thaleichthys pacificus</i>	Full Migrant	Least Concern		Unknown	2
PLECOGLOSSID AE	<i>Plecoglossus altivelis</i>	Full Migrant	Data Deficient		Decreasing	6
SALANGIDAE	<i>Neosalanx brevirostris</i>	Full Migrant	Data Deficient		Unknown	5
SALANGIDAE	<i>Neosalanx hubbsi</i>	Full Migrant	Data Deficient		Unknown	2
SALANGIDAE	<i>Neosalanx jordani</i>	Full Migrant	Least Concern		Decreasing	2
SALANGIDAE	<i>Protosalanx chinensis</i>	Full Migrant	Data Deficient		Unknown	3
SALANGIDAE	<i>Salangichthys microdon</i>	Full Migrant	Least Concern		Unknown	5
SALANGIDAE	<i>Salanx chinensis</i>	Full Migrant	Data Deficient		Unknown	2
SALANGIDAE	<i>Salanx cuvieri</i>	Full Migrant	Data Deficient		Decreasing	3
GYMNARCHIDA E	<i>Gymnarchus niloticus</i>	Full Migrant	Least Concern		Unknown	17
MORMYRIDAE	<i>Brevimyrus niger</i>	Full Migrant	Least Concern		Unknown	14
MORMYRIDAE	<i>Brienomyrus longianalis</i>	Full Migrant	Least Concern		Unknown	2
MORMYRIDAE	<i>Gnathonemus longibarbis</i>	Full Migrant	Least Concern		Unknown	6
MORMYRIDAE	<i>Hippopotamyrus grahami</i>	Full Migrant	Least Concern		Unknown	4
MORMYRIDAE	<i>Hyperopisus bebe</i>	Full Migrant	Least Concern		Unknown	20
MORMYRIDAE	<i>Marcusenius altisambesi</i>	Full Migrant	Least Concern		Unknown	5
MORMYRIDAE	<i>Marcusenius cyprinoides</i>	Full Migrant	Least Concern		Unknown	8
MORMYRIDAE	<i>Marcusenius furcidens</i>	Full Migrant	Least Concern		Unknown	2
MORMYRIDAE	<i>Marcusenius macrolepidotus</i>	Full Migrant	Least Concern		Unknown	4
MORMYRIDAE	<i>Marcusenius senegalensis</i>	Full Migrant	Least Concern		Unknown	15



MORMYRIDAE	<i>Marcusenius ussheri</i>	Full Migrant	Least Concern		Unknown	6
MORMYRIDAE	<i>Marcusenius victoriae</i>	Full Migrant	Least Concern		Unknown	4
MORMYRIDAE	<i>Mormyrops anguilloides</i>	Full Migrant	Least Concern		Unknown	30
MORMYRIDAE	<i>Mormyrus hasselquistii</i>	Full Migrant	Least Concern		Unknown	21
MORMYRIDAE	<i>Mormyrus longirostris</i>	Full Migrant	Least Concern		Unknown	6
MORMYRIDAE	<i>Mormyrus macrophthalmus</i>	Full Migrant	Least Concern		Unknown	9
MORMYRIDAE	<i>Mormyrus rume</i>	Full Migrant	Least Concern		Unknown	17
MORMYRIDAE	<i>Petrocephalus bovei</i>	Full Migrant	Least Concern		Unknown	18
MORMYRIDAE	<i>Petrocephalus catostoma</i>	Full Migrant	Least Concern		Unknown	7
MORMYRIDAE	<i>Petrocephalus simus</i>	Full Migrant	Least Concern		Unknown	6
MORMYRIDAE	<i>Petrocephalus wesselsi</i>	Full Migrant	Least Concern		Unknown	3
MORMYRIDAE	<i>Pollimyrus isidori</i>	Full Migrant	Least Concern		Unknown	14
MORMYRIDAE	<i>Pollimyrus nigricans</i>	Full Migrant	Least Concern		Unknown	6
MORMYRIDAE	<i>Pollimyrus petricolus</i>	Full Migrant	Least Concern		Unknown	4
NOTOPTERIDAE	<i>Chitala blanci</i>	Full Migrant	Near Threatened		Unknown	4
NOTOPTERIDAE	<i>Chitala ornata</i>	Full Migrant	Least Concern		Stable	4
NOTOPTERIDAE	<i>Notopterus notopterus</i>	Nomadic	Least Concern		Stable	11
OSTEOGLOSSID AE	<i>Osteoglossum bicirrhosum</i>	Full Migrant	Least Concern		Decreasing	8
OSTEOGLOSSID AE	<i>Osteoglossum ferreirai</i>	Full Migrant	Least Concern		Unknown	3

PANTODONTIDAE	<i>Pantodon buchholzi</i>	Full Migrant	Least Concern		Unknown	8
AMBASSIDAE	<i>Ambassis miops</i>	Full Migrant	Least Concern		Stable	14
AMBASSIDAE	<i>Parambassis siamensis</i>	Full Migrant	Least Concern		Stable	5
AMBASSIDAE	<i>Parambassis wolffii</i>	Full Migrant	Least Concern		Stable	7
ANABANTIDAE	<i>Anabas cobojius</i>	Full Migrant	Data Deficient		Unknown	3
ANABANTIDAE	<i>Anabas testudineus</i>	Full Migrant	Least Concern		Stable	15
ANABANTIDAE	<i>Ctenopoma petherici</i>	Full Migrant	Least Concern		Unknown	18
APOGONIDAE	<i>Yarica hyalosoma</i>	Full Migrant	Least Concern		Unknown	19
CARANGIDAE	<i>Caranx hippos</i>	Altitudinal Migrant	Least Concern		Stable	57
CARANGIDAE	<i>Caranx sexfasciatus</i>	Altitudinal Migrant	Least Concern		Decreasing	80
CHANNIDAE	<i>Channa argus</i>	Full Migrant	Least Concern		Decreasing	2
CHANNIDAE	<i>Channa gachua</i>	Full Migrant	Least Concern		Unknown	18
CHANNIDAE	<i>Channa lucius</i>	Full Migrant	Least Concern		Stable	8
CHANNIDAE	<i>Parachanna obscura</i>	Full Migrant	Least Concern		Unknown	22
CICHLIDAE	<i>Cichla intermedia</i>	Full Migrant	Least Concern		Unknown	2
CICHLIDAE	<i>Cichla orinocensis</i>	Full Migrant	Least Concern		Stable	3
CICHLIDAE	<i>Hemichromis bimaculatus</i>	Full Migrant	Least Concern		Unknown	22
CICHLIDAE	<i>Hemichromis fasciatus</i>	Full Migrant	Least Concern		Unknown	30
CICHLIDAE	<i>Oreochromis mossambicus</i>	Full Migrant	Vulnerable	A4ae	Decreasing	6
CICHLIDAE	<i>Pseudocrenilabrus philander</i>	Nomadic	Least Concern		Stable	12

CICHLIDAE	<i>Sarotherodon melanotheron</i>	Full Migrant	Least Concern		Unknown	15
CICHLIDAE	<i>Tilapia sparrmanii</i>	Full Migrant	Least Concern		Unknown	11
DATNIOIDIDAE	<i>Datnioides undecimradiatus</i>	Full Migrant	Vulnerable	A2d	Decreasing	4
GERREIDAE	<i>Eucinostomus melanopterus</i>	Full Migrant	Least Concern		Unknown	63
GERREIDAE	<i>Gerres cinereus</i>	Full Migrant	Least Concern		Unknown	43
GERREIDAE	<i>Gerres simillimus</i>	Full Migrant	Least Concern		Unknown	10
HAEMULIDAE	<i>Rhonciscus bayanus</i>	Full Migrant	Least Concern		Unknown	8
KUHLIIDAE	<i>Kuhlia marginata</i>	Full Migrant	Least Concern		Stable	14
KUHLIIDAE	<i>Kuhlia mugil</i>	Full Migrant	Least Concern		Unknown	34
KUHLIIDAE	<i>Kuhlia munda</i>	Full Migrant	Data Deficient		Unknown	6
KUHLIIDAE	<i>Kuhlia rupestris</i>	Full Migrant	Least Concern		Stable	30
LATEOLABRACIDAE	<i>Lateolabrax japonicus</i>	Full Migrant	Least Concern		Stable	6
LATIDAE	<i>Lates calcarifer</i>	Full Migrant	Least Concern		Unknown	8
LATIDAE	<i>Lates niloticus</i>	Full Migrant	Least Concern		Unknown	22
MORONIDAE	<i>Dicentrarchus labrax</i>	Full Migrant	Least Concern		Unknown	41
MORONIDAE	<i>Morone saxatilis</i>	Full Migrant	Least Concern		Unknown	2
NANDIDAE	<i>Pristolepis fasciata</i>	Full Migrant	Least Concern		Stable	5
OSPHRONEMIDAE	<i>Osphronemus exodon</i>	Full Migrant	Vulnerable	A2ce	Decreasing	3
PERCICHTHYIDAE	<i>Percichthys trucha</i>	Altitudinal Migrant	Least Concern		Decreasing	2
PERCIDAE	<i>Gymnocephalus baloni</i>	Full Migrant	Least Concern		Unknown	12
PERCIDAE	<i>Percarina maeotica</i>	Full Migrant	Least Concern		Unknown	2
PERCIDAE	<i>Sander lucioperca</i>	Full Migrant	Least Concern		Unknown	41

PERCIDAE	<i>Sander marinus</i>	Full Migrant	Least Concern		Unknown	9
POLYNEMIDAE	<i>Polynemus aquilonaris</i>	Full Migrant	Least Concern		Unknown	4
SCATOPHAGIDAE	<i>Selenotoca multifasciata</i>	Full Migrant	Least Concern		Unknown	4
SCIAENIDAE	<i>Johnius carutta</i>	Full Migrant	Least Concern		Unknown	14
SCIAENIDAE	<i>Johnius coitor</i>	Full Migrant	Least Concern		Unknown	6
SCIAENIDAE	<i>Johnius gangeticus</i>	Full Migrant	Data Deficient		Unknown	2
SCIAENIDAE	<i>Otolithoides biauritus</i>	Full Migrant	Data Deficient		Decreasing	11
SINIPERCIDAE	<i>Siniperca chuatsi</i>	Full Migrant	Least Concern		Increasing	4
TERAPONTIDAE	<i>Hephaestus fuliginosus</i>	Altitudinal Migrant	Least Concern		Stable	2
TERAPONTIDAE	<i>Mesopristes argenteus</i>	Full Migrant	Least Concern		Unknown	7
TERAPONTIDAE	<i>Mesopristes cancellatus</i>	Full Migrant	Least Concern		Unknown	7
ACHIRIDAE	<i>Achirus mazatlanus</i>	Altitudinal Migrant	Least Concern		Unknown	10
ACHIRIDAE	<i>Trinectes fonsecensis</i>	Altitudinal Migrant	Least Concern		Unknown	10
ACHIRIDAE	<i>Trinectes maculatus</i>	Full Migrant	Least Concern		Stable	11
ACHIRIDAE	<i>Trinectes paulistanus</i>	Full Migrant	Least Concern		Unknown	18
CYNOGLOSSIDAE	<i>Cynoglossus gracilis</i>	Full Migrant	Data Deficient		Unknown	6
CYNOGLOSSIDAE	<i>Cynoglossus microlepis</i>	Full Migrant	Least Concern		Stable	5
PLEURONECTIDAE	<i>Platichthys flesus</i>	Full Migrant	Least Concern		Decreasing	37
SOLEIDAE	<i>Brachirus harmandi</i>	Full Migrant	Least Concern		Stable	4

SOLEIDAE	<i>Brachirus pan</i>	Full Migrant	Least Concern		Unknown	6
SALMONIDAE	<i>Brachymystax lenok</i>	Nomadic	Least Concern		Decreasing	6
SALMONIDAE	<i>Coregonus albula</i>	Full Migrant	Least Concern		Unknown	12
SALMONIDAE	<i>Coregonus artedi</i>	Full Migrant	Lower Risk/least concern			2
SALMONIDAE	<i>Coregonus autumnalis</i>	Full Migrant	Least Concern		Unknown	4
SALMONIDAE	<i>Coregonus lavaretus</i>	Full Migrant	Vulnerable	D2	Unknown	2
SALMONIDAE	<i>Coregonus maraena</i>	Full Migrant	Vulnerable	A2cd	Decreasing	11
SALMONIDAE	<i>Coregonus megalops</i>	Full Migrant	Least Concern		Unknown	4
SALMONIDAE	<i>Coregonus nasus</i>	Full Migrant	Least Concern		Unknown	2
SALMONIDAE	<i>Coregonus pidschian</i>	Full Migrant	Least Concern		Unknown	5
SALMONIDAE	<i>Coregonus renke</i>	Full Migrant	Data Deficient		Unknown	2
SALMONIDAE	<i>Coregonus sardinella</i>	Full Migrant	Least Concern		Unknown	3
SALMONIDAE	<i>Coregonus widegreni</i>	Full Migrant	Data Deficient		Unknown	9
SALMONIDAE	<i>Hucho hucho</i>	Full Migrant	Endangered	B2ab(ii,iii)	Unknown	13
SALMONIDAE	<i>Hucho taimen</i>	Full Migrant	Vulnerable	A2bcd	Decreasing	4
SALMONIDAE	<i>Oncorhynchus nerka</i>	Full Migrant	Least Concern		Stable	3
SALMONIDAE	<i>Parahucho perryi</i>	Full Migrant	Critically Endangered	A4abcd	Decreasing	2
SALMONIDAE	<i>Salmo coruhensis</i>	Full Migrant	Near Threatened	A2c	Decreasing	2
SALMONIDAE	<i>Salmo ferax</i>	Full Migrant	Data Deficient		Unknown	2
SALMONIDAE	<i>Salmo labrax</i>	Full Migrant	Least Concern		Unknown	18
SALMONIDAE	<i>Salmo nigripinnis</i>	Full Migrant	Vulnerable	D2	Unknown	2
SALMONIDAE	<i>Salmo salar</i>	Full Migrant	Near Threatened	A2bd	Decreasing	21

SALMONIDAE	<i>Salmo stomachicus</i>	Full Migrant	Vulnerable	D2	Unknown	2
SALMONIDAE	<i>Salmo trutta</i>	Full Migrant	Least Concern		Unknown	36
SALMONIDAE	<i>Salvelinus alpinus</i>	Full Migrant	Least Concern		Unknown	10
SALMONIDAE	<i>Stenodus nelma</i>	Full Migrant	Least Concern		Unknown	6
SALMONIDAE	<i>Thymallus arcticus</i>	Full Migrant	Least Concern		Increasing	7
SALMONIDAE	<i>Thymallus thymallus</i>	Full Migrant	Least Concern		Unknown	32
COTTIDAE	<i>Cottus amblystomopsis</i>	Full Migrant	Least Concern		Unknown	2
COTTIDAE	<i>Cottus hangiongensis</i>	Full Migrant	Least Concern		Unknown	3
TETRAROGIDAE	<i>Tetraroge nigra</i>	Full Migrant	Least Concern		Unknown	7
ALIIDAE	<i>Clupisoma naziri</i>	Full Migrant	Near Threatened	A2bcd	Decreasing	2
ALIIDAE	<i>Clupisoma sinense</i>	Full Migrant	Least Concern		Unknown	6
ALIIDAE	<i>Laides longibarbis</i>	Full Migrant	Least Concern		Unknown	4
ALIIDAE	<i>Silonia silondia</i>	Full Migrant	Least Concern		Unknown	4
ARIIDAE	<i>Arius acutirostris</i>	Full Migrant	Least Concern		Unknown	2
ARIIDAE	<i>Arius arius</i>	Full Migrant	Least Concern		Unknown	12
ARIIDAE	<i>Arius gagora</i>	Full Migrant	Near Threatened		Decreasing	3
ARIIDAE	<i>Osteogeneiosus militaris</i>	Full Migrant	Least Concern		Unknown	9
AUCHENIPTERIDAE	<i>Ageneiosus inermis</i>	Altitudinal Migrant	Least Concern		Unknown	11
AUCHENIPTERIDAE	<i>Ageneiosus pardalis</i>	Full Migrant	Least Concern		Decreasing	3
AUCHENIPTERIDAE	<i>Ageneiosus ucayalensis</i>	Full Migrant	Least Concern		Unknown	8
BAGRIDAE	<i>Bagrichthys majusculus</i>	Full Migrant	Data Deficient		Unknown	4

BAGRIDAE	<i>Bagrichthys obscurus</i>	Full Migrant	Least Concern		Unknown	4
BAGRIDAE	<i>Bagrus bajad</i>	Full Migrant	Least Concern		Unknown	16
BAGRIDAE	<i>Batasio tengana</i>	Full Migrant	Least Concern		Unknown	2
BAGRIDAE	<i>Hemibagrus filamentus</i>	Full Migrant	Data Deficient		Unknown	3
BAGRIDAE	<i>Hemibagrus guttatus</i>	Full Migrant	Data Deficient		Decreasing	3
BAGRIDAE	<i>Hemibagrus spilopterus</i>	Full Migrant	Least Concern		Unknown	3
BAGRIDAE	<i>Mystus albolineatus</i>	Full Migrant	Least Concern		Unknown	3
BAGRIDAE	<i>Mystus atrifasciatus</i>	Full Migrant	Least Concern		Unknown	4
BAGRIDAE	<i>Mystus bocourti</i>	Full Migrant	Vulnerable	A2ce	Decreasing	4
BAGRIDAE	<i>Mystus gulio</i>	Altitudinal Migrant	Least Concern		Stable	5
BAGRIDAE	<i>Mystus multiradiatus</i>	Full Migrant	Least Concern		Unknown	4
BAGRIDAE	<i>Mystus mysticetus</i>	Full Migrant	Least Concern		Unknown	4
BAGRIDAE	<i>Mystus rhegma</i>	Full Migrant	Data Deficient		Unknown	4
BAGRIDAE	<i>Mystus singaringan</i>	Full Migrant	Least Concern		Stable	7
BAGRIDAE	<i>Pseudomystus siamensis</i>	Full Migrant	Least Concern		Unknown	4
BAGRIDAE	<i>Sperata aor</i>	Full Migrant	Least Concern		Stable	5
CLARIIDAE	<i>Clarias agboyienseis</i>	Full Migrant	Least Concern		Unknown	4
CLARIIDAE	<i>Clarias albopunctatus</i>	Full Migrant	Least Concern		Unknown	6
CLARIIDAE	<i>Clarias buthupogon</i>	Full Migrant	Least Concern		Unknown	9
CLARIIDAE	<i>Clarias jaensis</i>	Full Migrant	Least Concern		Unknown	6

CLARIIDAE	<i>Clarias magur</i>	Full Migrant	Endangered	A3cde+4acde	Decreasing	3
CLARIIDAE	<i>Clarias ngamensis</i>	Full Migrant	Least Concern		Unknown	10
CLARIIDAE	<i>Heterobranchus longifilis</i>	Full Migrant	Least Concern		Unknown	31
CLAROTEIDAE	<i>Auchenoglanis biscutatus</i>	Full Migrant	Least Concern		Unknown	14
CLAROTEIDAE	<i>Auchenoglanis occidentalis</i>	Full Migrant	Least Concern		Unknown	30
CLAROTEIDAE	<i>Chrysichthys laticeps</i>	Full Migrant	Least Concern		Unknown	3
CLAROTEIDAE	<i>Chrysichthys nigrodigitatus</i>	Full Migrant	Least Concern		Unknown	21
DORADIDAE	<i>Acanthodoras cataphractus</i>	Full Migrant	Least Concern		Unknown	9
DORADIDAE	<i>Agamyxis pectinifrons</i>	Full Migrant	Least Concern		Unknown	5
DORADIDAE	<i>Oxydoras niger</i>	Full Migrant	Least Concern		Unknown	6
DORADIDAE	<i>Oxydoras sifontesi</i>	Full Migrant	Least Concern		Stable	2
DORADIDAE	<i>Pterodoras rivasi</i>	Full Migrant	Least Concern		Stable	2
HEPTAPTERIDAE	<i>Rhamdia quelen</i>	Altitudinal Migrant	Least Concern		Stable	14
HETEROPNEUSTIDAE	<i>Heteropneustes fossilis</i>	Nomadic	Least Concern		Stable	8
LORICARIIDAE	<i>Rhinelepis strigosa</i>	Full Migrant	Least Concern		Unknown	4
MOCHOKIDAE	<i>Chiloglanis paratus</i>	Full Migrant	Least Concern		Unknown	4
MOCHOKIDAE	<i>Chiloglanis pretoriae</i>	Full Migrant	Least Concern		Unknown	3
MOCHOKIDAE	<i>Mochokus niloticus</i>	Full Migrant	Least Concern		Unknown	10



MOCHOKIDAE	<i>Synodontis batensoda</i>	Full Migrant	Least Concern		Unknown	14
MOCHOKIDAE	<i>Synodontis clarias</i>	Full Migrant	Least Concern		Unknown	12
MOCHOKIDAE	<i>Synodontis membranaceus</i>	Full Migrant	Least Concern		Unknown	16
MOCHOKIDAE	<i>Synodontis nigrita</i>	Full Migrant	Least Concern		Unknown	18
MOCHOKIDAE	<i>Synodontis njassae</i>	Full Migrant	Least Concern		Unknown	3
MOCHOKIDAE	<i>Synodontis ouemeensis</i>	Full Migrant	Least Concern		Unknown	3
MOCHOKIDAE	<i>Synodontis schall</i>	Full Migrant	Least Concern		Unknown	22
MOCHOKIDAE	<i>Synodontis zambezensis</i>	Full Migrant	Least Concern		Unknown	7
PANGASIIDAE	<i>Helicophagus leptorhynchus</i>	Full Migrant	Data Deficient		Stable	4
PANGASIIDAE	<i>Pangasianodon gigas</i>	Full Migrant	Critically Endangered	A4abcd	Decreasing	4
PANGASIIDAE	<i>Pangasianodon hypophthalmus</i>	Full Migrant	Endangered	A2bd+4bcd	Decreasing	4
PANGASIIDAE	<i>Pangasius bocourti</i>	Full Migrant	Least Concern		Decreasing	5
PANGASIIDAE	<i>Pangasius conchophilus</i>	Full Migrant	Least Concern		Decreasing	5
PANGASIIDAE	<i>Pangasius elongatus</i>	Full Migrant	Data Deficient		Stable	4
PANGASIIDAE	<i>Pangasius krempfi</i>	Full Migrant	Vulnerable	A2d	Decreasing	5
PANGASIIDAE	<i>Pangasius larnaudii</i>	Full Migrant	Least Concern		Decreasing	4
PANGASIIDAE	<i>Pangasius macronema</i>	Full Migrant	Least Concern		Stable	5
PANGASIIDAE	<i>Pangasius mekongensis</i>	Full Migrant	Least Concern		Stable	4

PANGASIIDAE	<i>Pangasius nasutus</i>	Full Migrant	Least Concern		Stable	2
PANGASIIDAE	<i>Pangasius sanitwongsei</i>	Full Migrant	Critically Endangered	A2acd	Decreasing	5
PANGASIIDAE	<i>Pseudolais pleurotaenia</i>	Full Migrant	Least Concern		Stable	5
PIMELODIDAE	<i>Aguarunichthys torosus</i>	Altitudinal Migrant	Least Concern		Unknown	4
PIMELODIDAE	<i>Brachyplatystoma filamentosum</i>	Full Migrant	Least Concern		Decreasing	9
PIMELODIDAE	<i>Brachyplatystoma platynemum</i>	Full Migrant	Least Concern		Unknown	6
PIMELODIDAE	<i>Brachyplatystoma rousseauxii</i>	Full Migrant	Vulnerable	A3cd	Decreasing	9
PIMELODIDAE	<i>Brachyplatystoma tigrinum</i>	Full Migrant	Least Concern		Unknown	5
PIMELODIDAE	<i>Hemisorubim platyrhynchos</i>	Full Migrant	Least Concern		Unknown	12
PIMELODIDAE	<i>Hypophthalmus oremaculatus</i>	Full Migrant	Least Concern		Stable	6
PIMELODIDAE	<i>Iheringichthys labrosus</i>	Full Migrant	Least Concern		Unknown	5
PIMELODIDAE	<i>Megalonema orixanthum</i>	Full Migrant	Least Concern		Stable	2
PIMELODIDAE	<i>Pimelodus albicans</i>	Full Migrant	Least Concern		Unknown	3
PIMELODIDAE	<i>Pimelodus coprophagus</i>	Full Migrant	Least Concern		Stable	2
PIMELODIDAE	<i>Pimelodus maculatus</i>	Full Migrant	Least Concern		Stable	3
PIMELODIDAE	<i>Pimelodus punctatus</i>	Full Migrant	Least Concern		Decreasing	2
PIMELODIDAE	<i>Pinirampus pirinampu</i>	Full Migrant	Least Concern		Unknown	10

PIMELODIDAE	<i>Platynematchthys notatus</i>	Full Migrant	Least Concern		Unknown	4
PIMELODIDAE	<i>Platystomatchthys sturio</i>	Full Migrant	Least Concern		Unknown	5
PIMELODIDAE	<i>Pseudoplatystoma corruscans</i>	Full Migrant	Near Threatened	A2bcde	Decreasing	5
PIMELODIDAE	<i>Pseudoplatystoma fasciatum</i>	Full Migrant	Least Concern		Decreasing	3
PIMELODIDAE	<i>Pseudoplatystoma metaense</i>	Full Migrant	Endangered	A2bd	Decreasing	2
PIMELODIDAE	<i>Pseudoplatystoma orinocoense</i>	Full Migrant	Endangered	A2bd	Decreasing	2
PIMELODIDAE	<i>Pseudoplatystoma punctifer</i>	Full Migrant	Least Concern		Unknown	5
PIMELODIDAE	<i>Pseudoplatystoma reticulatum</i>	Full Migrant	Least Concern		Unknown	5
PIMELODIDAE	<i>Pseudoplatystoma tigrinum</i>	Full Migrant	Least Concern		Unknown	8
PIMELODIDAE	<i>Sorubimichthys planiceps</i>	Full Migrant	Least Concern		Unknown	5
PIMELODIDAE	<i>Steindachneridion scriptum</i>	Full Migrant	Endangered	B2ab(iii,v)	Decreasing	4
PIMELODIDAE	<i>Zungaro jahu</i>	Full Migrant	Near Threatened	A2cd	Decreasing	5
PIMELODIDAE	<i>Zungaro zungaro</i>	Full Migrant	Least Concern		Unknown	9
PLOTOSIDAE	<i>Neosilurus ater</i>	Altitudinal Migrant	Least Concern		Stable	2
SCHILBEIDAE	<i>Pareutropius buffei</i>	Full Migrant	Least Concern		Unknown	2
SCHILBEIDAE	<i>Schilbe brevianalis</i>	Full Migrant	Least Concern		Unknown	2
SCHILBEIDAE	<i>Schilbe intermedius</i>	Full Migrant	Least Concern		Unknown	34
SCHILBEIDAE	<i>Schilbe mystus</i>	Full Migrant	Least Concern		Unknown	23
SCHILBEIDAE	<i>Schilbe uranoscopus</i>	Full Migrant	Least Concern		Unknown	9

SCHILBEIDAE	<i>Siluranodon auritus</i>	Full Migrant	Least Concern		Unknown	15
SILURIDAE	<i>Belodontichthys truncatus</i>	Full Migrant	Least Concern		Stable	4
SILURIDAE	<i>Hemisilurus mekongensis</i>	Full Migrant	Least Concern		Stable	3
SILURIDAE	<i>Kryptopterus cryptopterus</i>	Full Migrant	Least Concern		Stable	2
SILURIDAE	<i>Kryptopterus paraschilbeides</i>	Full Migrant	Data Deficient		Unknown	2
SILURIDAE	<i>Ompok bimaculatus</i>	Full Migrant	Near Threatened		Unknown	4
SILURIDAE	<i>Ompok pabda</i>	Full Migrant	Near Threatened		Decreasing	2
SILURIDAE	<i>Ompok pinnatus</i>	Full Migrant	Data Deficient		Unknown	3
SILURIDAE	<i>Ompok urbaini</i>	Full Migrant	Least Concern		Unknown	4
SILURIDAE	<i>Phalacronotus apogon</i>	Full Migrant	Least Concern		Stable	7
SILURIDAE	<i>Phalacronotus bleekeri</i>	Full Migrant	Least Concern		Unknown	4
SILURIDAE	<i>Phalacronotus micronemus</i>	Full Migrant	Least Concern		Stable	6
SILURIDAE	<i>Silurus soldatovi</i>	Full Migrant	Least Concern		Decreasing	2
SILURIDAE	<i>Wallago attu</i>	Full Migrant	Vulnerable	A2d	Decreasing	11
SILURIDAE	<i>Wallago micropogon</i>	Full Migrant	Data Deficient		Unknown	4
SISORIDAE	<i>Bagarius lica</i>	Full Migrant	Least Concern		Stable	7
SISORIDAE	<i>Bagarius rutilus</i>	Full Migrant	Data Deficient		Decreasing	2
SISORIDAE	<i>Bagarius suchus</i>	Full Migrant	Near Threatened		Unknown	3
TRICHOMYCTERIDAE	<i>Trichomycterus barbouri</i>	Full Migrant	Least Concern		Unknown	3
MASTACEMBELIDAE	<i>Macrognathus semiocellatus</i>	Full Migrant	Least Concern		Stable	4

MASTACEMBELI DAE	<i>Macrognathus siamensis</i>	Full Migrant	Least Concern		Unknown	4
MASTACEMBELI DAE	<i>Mastacembelus favus</i>	Full Migrant	Least Concern		Stable	5
MASTACEMBELI DAE	<i>Mastacembelus undulatus</i>	Full Migrant	Data Deficient		Unknown	2
SYNBRANCHIDAE	<i>Ophichthys cuchia</i>	Altitudinal Migrant	Least Concern		Unknown	5
SYNBRANCHIDAE	<i>Synbranchus marmoratus</i>	Full Migrant	Least Concern		Unknown	18
SYNGNATHIDAE	<i>Microphis brachyurus</i>	Full Migrant	Least Concern		Unknown	52
SYNGNATHIDAE	<i>Microphis deocata</i>	Full Migrant	Near Threatened		Unknown	2
SYNGNATHIDAE	<i>Microphis leiaspis</i>	Full Migrant	Least Concern		Unknown	12
TETRAODONTIDAE	<i>Takifugu obscurus</i>	Full Migrant	Least Concern		Stable	4
TETRAODONTIDAE	<i>Takifugu ocellatus</i>	Full Migrant	Near Threatened		Decreasing	6
GEOTRIIDAE	<i>Geotria australis</i>	Full Migrant	Data Deficient		Unknown	3
GEOTRIIDAE	<i>Geotria macrostoma</i>	Full Migrant	Least Concern		Decreasing	4
PETROMYZONTIDAE	<i>Caspiomyzon wagneri</i>	Full Migrant	Near Threatened		Unknown	5
PETROMYZONTIDAE	<i>Entosphenus tridentatus</i>	Full Migrant	Least Concern		Decreasing	4
PETROMYZONTIDAE	<i>Ichthyomyzon castaneus</i>	Full Migrant	Least Concern		Stable	2
PETROMYZONTIDAE	<i>Ichthyomyzon unicuspis</i>	Full Migrant	Least Concern		Stable	2
PETROMYZONTIDAE	<i>Lampetra ayresii</i>	Full Migrant	Least Concern		Unknown	2
PETROMYZONTIDAE	<i>Lampetra fluviatilis</i>	Full Migrant	Least Concern		Unknown	23

PETROMYZONTI DAE	<i>Lethenteron camtschaticum</i>	Full Migrant	Least Concern		Unknown	9
PETROMYZONTI DAE	<i>Lethenteron reissneri</i>	Full Migrant	Least Concern		Unknown	6
PETROMYZONTI DAE	<i>Petromyzon marinus</i>	Full Migrant	Least Concern		Stable	39
PROTOPTERIDA E	<i>Protopterus annectens</i>	Full Migrant	Least Concern		Unknown	22