

Squalius illyricus

Region: 1

Taxonomic Authority: (Heckel & Kner, 1858)

Synonyms:

Common Names:

Order: Cypriniformes

Family: Cyprinidae

Notes on taxonomy: Some authors consider this species as doubtful (Bianco & Knezevic, 1987). New genus Squalius from Leuciscus (Bogutskaya & Zupancic, 1999).

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

It is restricted to the Cetina and Krka river basins in Croatia.

Habitat and Ecology Information:

Lives in karstic river. A robust species able to withstand impacts of invasive species (Mrakovcic, M. pers comm).

Conservation Measures:

Listed in the Appendix III of the Bern Convention. Part of range is included in a National Park.

Threats:

Habitat destruction (dams), potential introduction of exotic fish species and water pollution.

Species population information:

Hasn't declined in the past 10 years (Mrakovcic, M. pers comm).

Country Distribution

	Native - Presence Confirmed	Native - Presence Possible	Extinct	Reintroduced	Introduced	Vagrant
Croatia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Upper Level Habitat Preferences

Score

Lower Level Habitat Preferences

Score

5.1 Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls)	1
12.1 Artificial/Aquatic - Water Storage Areas (over 8ha)	1

Major threats

Code	Description of threat	Past	Present	Future
1	Habitat Loss/Degradation (human induced)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4	Infrastructure development	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.6	Dams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Invasive alien species (directly affecting the species)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Pollution (affecting habitat and/or species)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	Intrinsic factors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9.9	Restricted range	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Conservation Measures

Code	Conservation measures	In place	Needed
1	Policy-based actions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2	Legislation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.1	Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.1.1	International level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2	Implementation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2.1	International level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Research actions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3.1	Taxonomy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.2	Population numbers and range	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.3	Biology and Ecology	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.4	Habitat status	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.5	Threats	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.8	Conservation measures	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.9	Trends/Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Utilisation of Species

Purpose/Type of Use

1. Food - human

Subsistence

National

International

Other purpose:

Primary forms removed from the wild

100%

>75%

51-75%

26-50%

<25%

Other forms removed from the wild:

1. Whole animal/plant

Source of specimens in commercial trade

100%

>75%

51-75%

26-50%

<25%

Other source of specimens:

Not traded

Trend in wild offtake/harvest in relation to total wild population numbers over last five years:

Unknown

Trend in offtake/harvest produced through domestication/cultivation over last five years:

Unknown

CITES: Not listed

Red Listing

Red List Assessment: Near Threatened (NT)

Possibly Extinct

Red List Criteria:

Rationale for the Red List Assessment:

S. illyricus has not declined in the past 10 years. It occurs in two rivers (Cetina and Krka basins) where there is a possibility of alien species being introduced. However it is a robust species and is thought that the alien species that have been introduced in the region would probably not have a major impact (Mrakovcic, M. pers comm). It could qualify for VU D2 depending upon the potential impact of introduced species.

Current Population Trend: Unknown

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli

Evaluator: M. Mrakovcic & J. Frevhof

Notes on Red listing:

Bibliography

- Povz, M., Leiner, S., Mrakovcic, M. & Popovic, J., 1990, Rare and endangered fishes from Yugoslavian Adriatic rivers., Journal of Fish Biology, , , 37 (Supplement A), 247-249, ,
- Mrakovcic, M., Misetic, S. & Povz, M., 1995, Status of freshwater fish in Croatian Adriatic river systems., Biological Conservation, , , 72, 179-185, ,
- Bogutskaya, N.G., 2002, *Petroleuciscus*, a new genus for the *Leuciscus borysthensicus* species group (Teleostei: Cyprinidae), Zoosystematica Rossica, , , 11(1), 235-237, ,
- Bogutskaya, N.G. & Zupancic, P., 1999, A re-description of *leuciscus zрманjae* (karman, 1928) and new data on the taxonomy of *Leuciscus illyricus*, *L. svalize* and *L. cephalus* in the West Balkans., Ann. Naturalist. Mus. Wies., , , 101 B, 509-529, ,