

# Squalius microlepis

Region: 1

Taxonomic Authority: (Heckel, 1843)

**Synonyms:**

Leuciscus turskyi microlepis (Heckel, 1843)

**Common Names:**

Order: Cypriniformes

Family: Cyprinidae

Notes on taxonomy: New genus Squalius from Leuciscus (Bogutskaya 2002)

## General Information

Biome  Terrestrial  Freshwater  Marine

**Geographic Range of species:**

It is restricted to the Neretva river basin in Croatia and Bosnia-Herzegovina. Karstic streams in Ivanjsko polje, Buska and Mandečko lakes near Livno. Introduced (possibly) to the Blidinje lake more than 100 years ago, and Prolosko & Ricice lakes near Imotski, Matica drainage near Vrgorac (Croatia), Tihaljina and possibly Trebizat (a Neretva tributary) drainages (Bosnia-Herzegovina).

**Habitat and Ecology Information:**

No data.

**Conservation Measures:**

Listed in the Appendix III of the Bern Convention.

**Threats:**

Habitat destruction, water pollution and extraction, introduction of exotic fish species.

**Species population information:**

Declining. The population in the small stream is very restricted, the main population is in 3 lakes (two native and one introduced). (M. Mrakovcic & J. Freyhof. pers comm)

## Country Distribution

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

## Major threats

## Conservation Measures

Code	Description of threat	Past	Present	Future	Code	Conservation measures	In place	Needed
1	Habitat Loss/Degradation (human induced)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	Research actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.3	Extraction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.1	Taxonomy	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.6	Groundwater extraction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.2	Population numbers and range	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.4	Infrastructure development	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.3	Biology and Ecology	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.6	Dams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.4	Habitat status	<input 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"/>	3.5	Threats	<input 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"/>	3.8	Conservation measures	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.9	Trends/Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	Natural disasters	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
7.1	Drought	<input type="checkbox"/>	<input 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"/>				

## Utilisation of Species

**Purpose/Type of Use**

1. Food - human  Subsistence  National  International  Other purpose:

**Primary forms removed from the wild**

1. Whole animal/plant 100% >75% 51-75% 26-50% <25% Other forms removed from the wild:

**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: Endangered (EN)

Possibly Extinct

Red List Criteria: B2ab(ii,iii)

**Rationale for the Red List Assessment:**

S. microlepis is restricted to 3 locations in the Neretva river basin. One small population is in a karstic stream in Ivanjsko polje and the main population is in two lakes, Buska and Mandečko lakes near Livno. The AOO is estimated to be around 10km<sup>2</sup>, and there is continuing decline in AOO and quality of habitat due to habitat destruction, pollution and water extraction.

**Current Population Trend:** Unknown

**Date of Assessment:** 31/10/2004

**Assessor(s):** A.J. Crivelli

**Evaluator:** M. Mrakovcic & J. Freyhof

**Notes on Red listing:**

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### **Bibliography**

Mrakovcic, M., Misetic, S. & Povz, M., 1995, Status of freshwater fish in Croatian Adriatic river systems, *Biological Conservation*, , , 72, 179-185, ,