

# Squalius pyrenaicus

Region: 1

Taxonomic Authority: Günther, 1868

Synonyms:

Common Names:

Order: Cypriniformes

Family: Cyprinidae

Notes on taxonomy: Recent change of genus to Squalius from Leuciscus. (Zardoya, R. & Doadrio, I. 1999).(Sanjur, O. et al 2003)

## General Information

Biome  Terrestrial  Freshwater  Marine

### Geographic Range of species:

It is restricted to numerous river basins in Portugal and Spain.

### Habitat and Ecology Information:

Lives in all river sections.

### Conservation Measures:

It is listed in the Appendix III of the Bern Convention

### Threats:

Water extraction and pollution and introduced predators.

### Species population information:

Fragmented and not abundant.

## Country Distribution

	Native - Presence Confirmed	Native - Presence Possible	Extinct	Reintroduced	Introduced	Vagrant
Portugal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spain	<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
5.2	Wetlands (inland) - Seasonal/Intermittent/Irregular Rivers/Streams/Creeks	1
12.1	Artificial/Aquatic - Water Storage Areas (over 8ha)	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Policy-based actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.3	Extraction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2	Legislation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.6	Groundwater extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.1	Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Invasive alien species (directly affecting the species)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.1.1	International level	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.2	Predators	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.2	Implementation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Pollution (affecting habitat and/or species)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.2.1	International level	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	Research actions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	Natural disasters	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3.1	Taxonomy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.1	Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3.2	Population numbers and range	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					3.3	Biology and Ecology	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					3.4	Habitat status	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					3.5	Threats	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					3.9	Trends/Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					4	Habitat and site-based actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					4.1	Maintenance/Conservation	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Utilisation of Species

Purpose/Type of Use	Subsistence	National	International	Other purpose:
Primary forms removed from the wild	100%	>75%	51-75%	26-50% <25%
Source of specimens in commercial trade	100%	>75%	51-75%	26-50% <25%

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

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

CITES:

## Red Listing

Red List Assessment: Near Threatened (NT)  Possibly Extinct

Red List Criteria:

Rationale for the Red List Assessment: S. pyrenaicus is well distributed, however it is not abundant, is severley fragmented and has many widespread and serious threats which are predicted to increases in severity in the future. It is suspected that it may meet criteria A in the future.

Current Population Trend: Stable

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli

Evaluator: J. Carmona

Notes on Red listing:

---

## **Bibliography**

- Coelho, M.M., Bogutskaya, N.G., Rodrigues, J.A. & Collares-Pereira, M.J., 1998, *Leuciscus torgalensis* and *L. aradensis*, two new cyprinids from Portuguese fresh waters., *Journal of Fish Biology*, , 52, 937-950, ,
- Elvira, B., 1995, Conservation status of endemic freshwater fish in Spain., *Biological Conservation*, , 72, 129-136, ,
- Zardoya, R. & Doadrio, I., 1999, Molecular evidence on the evolutionary and biogeographical patterns of European Cyprinids, *Journal of Molecular Evolution*, , 49, 227-237, ,
- Sanjur, O., Carmona, J.A. & Doadrio, I., 2003, Molecular Phylogeny of Iberian Chub (Genus *Squalius*, Cyprinidae). inferred from molecular data., *Molecular Phylogenetics and Evolution*, , 29, 20-30, ,
- Doadrio, I., 2001, , Atlas y libro rojo de los peces continentales de España, , 374, MMA, CSIC, Madrid