

Squalius alburnoides

Region: 1

Taxonomic Authority: Steindachner, 1866

Synonyms:

Tropidophoxinellus alburnoides (Steindachner, 1866)
Rutilus alburnoides (Steindachner, 1866)

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 the south-west of the Iberian peninsula in Portugal and Spain.

Habitat and Ecology Information:

It lives in all river sections, but mainly middle reaches.

Conservation Measures:

It is listed in Annex II of the Habitats Directive of EU and in the Appendix III of the Bern Convention.

Threats:

Introduced species (Micropterus salmoides, Esox lucius, Sander luuceoperca), dam construction and agriculture water extraction.

Species population information:

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

- 5.1 Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls) 1
- 5.2 Wetlands (inland) - Seasonal/Intermittent/Irregular Rivers/Streams/Creeks 1

Lower Level Habitat Preferences

Score

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"/>
1.3	Extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.6	Groundwater extraction	<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"/>
2.2	Predators	<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"/>
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"/>

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 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"/>
3.8	Conservation measures	<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: Vulnerable (VU) Possibly Extinct

Red List Criteria: A3ce

Rationale for the Red List Assessment: Even though S. alburnoides is currently abundant it is suspected that a >30% decline in population will occur in the next 10 years due to the major threat caused by introduced species (Micropterus salmoides, Esox lucius, Sander luuceoperca) and habitat loss caused by dam construction, water extraction and pollution (Carmona, J. pers comm).

Current Population Trend: Stable

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli

Evaluator: J. Carmona

Notes on Red listing:

Bibliography

Collares-Pereira, M.J., Alves, M.J. & Coelho, M.M., 1999, Reassessment of the generic position of the Iberian cyprinid alburnoides complex: its return to the genus *Leuciscus*., *Journal of Fish Biology*, , 54, 465-468, ,

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, ,

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