

# Barbatula simavica

Region: 1

**Taxonomic Authority:** (Balik & Banarescu, 1978)

**Synonyms:**

Orthrias brandti simavica Balik & Banarescu, 1978

**Common Names:**

**Order:** Cypriniformes

**Family:** Balitoridae

**Notes on taxonomy:** The taxonomy of Barbatula is in need of revision.

## General Information

**Biome**  Terrestrial  Freshwater  Marine

**Geographic Range of species:**

The species is restricted to the Simav stream, a tributary of the Gediz River in western Anatolia, Turkey.

**Habitat and Ecology Information:**

Occurs in streams.

**Conservation Measures:**

None known to be in place.

**Threats:**

Water pollution (Bakac 2000) and water extraction are the main threats to the species.

**Species population information:**

No published data on trends, but the population is believed to be declining as a result of habitat degradation.

## Country Distribution

	Native - Presence Confirmed	Native - Presence Possible	Extinct	Reintroduced	Introduced	Vagrant
Turkey	<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

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"/>
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"/>
6.3.1	Agriculture	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.2	Domestic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.3	Commercial/Industrial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.8	Sewage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Conservation Measures

Code	Conservation measures	In place	Needed
3	Research actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.1	Taxonomy	<input type="checkbox"/>	<input checked="" 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	Subsistence	National	International	Other purpose:	
				Not used	
Primary forms removed from the wild	100%	>75%	51-75%	26-50% <25%	<b>Other forms removed from the wild:</b>
Source of specimens in commercial trade	100%	>75%	51-75%	26-50% <25%	<b>Other source of specimens:</b>

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:** Critically Endangered (CR)  Possibly Extinct

**Red List Criteria:** B1ab(ii,iii,v)+2ab(ii,iii,v)

**Rationale for the Red List Assessment:** The species is known only from Simav stream. Extent of occurrence is less than 100 km<sup>2</sup> and area of occupancy is less than 10 km<sup>2</sup>. Habitat quality continues to decline, mainly as a result of pollution. Assessed as Critically Endangered.

**Current Population Trend:** Decreasing

**Date of Assessment:** 14/12/2004

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

**Evaluator:** A. Karataş, F. Erk'akan, N. Bogutskaya & M. Goren

**Notes on Red listing:**

## Bibliography

Banarescu, P.M., Nalbant, T.T. & Balik, S., 1978, Süßwasserfische der Türkei. 11. Teil. Die gattung Orthrias in der Türkei und in Südbulgarien (Pisces, Cobitidae, Noemacheilinae), Mitt. Hamb. Zool. Mus. Inst., , 75, 255-266, ,  
Bakac, 2000, Heavy Metal Concentrations Along the Gediz River Basin. 4<sup>th</sup> General Conference Balkan Physical Union, Veliko Turnova (Bulgaria), Balkan Physics Letters, , , , , ,