

Petroleuciscus smyrnaeus

Region: 1

Taxonomic Authority: (Boulenger, 1896)

Synonyms:

Leuciscus smyrnaeus Boulenger, 1896

Common Names:

Order: Cypriniformes

Family: Cyprinidae

Notes on taxonomy: Initially recorded as Leuciscus smyrnaeus. Now transferred to genus Petroleuciscus (Bogutskaya 2002).

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

This species is restricted to streams and rivers of south-western Anatolia, Turkey. In Turkey, it is known for certain from only two localities: Izmir and Gulluk. Recently discovered also occurring on Lesbos, Greece (Kottelat and Barbieri 2004).

Habitat and Ecology Information:

No data available.

Conservation Measures:

None known to be in place.

Threats:

Water pollution is the main threat to the species.

Species population information:

Described as rare (N. Bogutskaya, pers. comm.). However, on Lesbos it is described as quite abundant.

Country Distribution

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

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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3	Extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.1	Taxonomy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.3.6	Groundwater extraction	<input checked="" 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"/>
6	Pollution (affecting habitat and/or species)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.5	Threats	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.8	Conservation measures	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.1	Agriculture	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.9	Trends/Monitoring	<input 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"/>				
7	Natural disasters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
7.1	Drought	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
12	Unknown	<input checked="" type="checkbox"/>	<input checked="" 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%	Other forms removed from the wild:
Source of specimens in commercial trade	100%	>75%	51-75%	26-50% <25%	Other source of specimens:

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: Data Deficient (DD) Possibly Extinct

Red List Criteria:

Rationale for the Red List Assessment: This species is known from only two locations. Nothing is known of population size. The area the species was found in is affected mainly by water pollution. More data is required to determine threat status. Data Deficient.

Current Population Trend: Unknown

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli & N. Bogutskaya

Evaluator: A. Karatash & F. Erk'akan

Notes on Red listing:

Bibliography

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- Bogutskaya, N.G., 1996, Contribution to the knowledge of leuciscine fishes of Asia Minor. Part1. Morphology and taxonomic relationships of *L. borysthenicus* (Kessler, 1859), *L. smyrnaeus* Boulenger, 1896 and *Ladigesocypris ghigii* (Gianferrari, 1927)(Cyprinidae)., Publ. Espec. Inst.Esp. Oceanogr., , , 21, 25-44, ,
- Bogutskaya, N.G., 2002, , , *Petroleuciscus*, a new genus for the *Leuciscus borysthenicus* species group (Teleostei: Cyprinidae), , , , Zoological Institute, St. Petersburg
- Barbieri R., Kottelat M. & Stoumboudi M.Th., 2004, The freshwater fish of the Island of Lesbos, Greece. "XI European Congress of Ichthyology" (ECI XI), Tallinn, Estonia, 6-10 September 2004, Book of abstract., , , , 30-31, ,