

Phoxinellus metohiensis

Taxonomic Authority: (Steindachner, 1901)

Synonyms:

Region: 1

Common Names:

Order: Cypriniformes

Family: Cyprinidae

Notes on taxonomy:

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

It is restricted to karstic streams and springs in the Musica river, Nevesinjsko polje, Gatacko Polje, Cernicko Polje, Dabarsko Polje and Ljuta river in southern Dalmatia, Croatia and Bosnia-Herzegovina.

Habitat and Ecology Information:

It lives in rivers, springs and caves in the karst region.

Conservation Measures:

None.

Threats:

Water extraction and pollution. Introduction of exotic fish species (trout).

Species population information:

No data.

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

- 5.9 Wetlands (inland) - Freshwater Springs and Oases
5.18 Wetlands (inland) - Karst and Other Subterranean Hydrological Systems (inland)

1

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"/>	1	Policy-based actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.3	Extraction	<input checked="" 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 checked="" type="checkbox"/>	<input checked="" 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 checked="" 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.1.2	National level	<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"/>	1.2.2	Implementation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.2.1	International level	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	Natural disasters	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.2.2	National level	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7.1	Drought	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	Research actions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	Intrinsic factors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.1	Taxonomy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9.1	Limited dispersal	<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"/>
9.10	Other	<input checked="" type="checkbox"/>	<input checked="" 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"/>
					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%	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: Vulnerable (VU)

Possibly Extinct

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

Rationale for the Red List Assessment:

P. metohiensis has an EOO<20,000km² (AOO<500km²) and is found in at least 5 and no more than 10 locations (karstic streams and springs in southern Dalmatia). There is a continuing decline in habitat quality in some areas due to pollution leading to eutrophication and a decline in AOO due to water extraction and drought.

Current Population Trend: Decreasing

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli

Evaluator: J. Freyhof, N. Bogutskaya

Notes on Red listing:

Bibliography

- Bogutskaya, N.G. & Zupancic, P., 2003, *Phoxinellus pseudalepidotus* (Teleostei: Cyprinidae), a new species from the Neretva basin with an overview of the morphology of *Phoxinellus* species of Croatia and Bosnia-Herzegovina., *Ichthyol. Explor. Freshwaters*, , , 14, 369-383, ,
- Povz, M., Leiner, S., Mrakovcic, M. & Popovic, J., 1990, Rare and endangered fishes from Yugoslavian Adriatic rivers., *Journal of Fish Biology*, , , 37 (Supplement A), 247-249, ,
- Zupancic, P. & Bogutskaya, N.G., 2002, Description of two new species, *Phoxinellus Krbavensis* and *P. jadovensis*, re-description of *P. fontinalis* Karaman, 1972 and discussion of the distribution of *Phoxinellus* species (Teleostei: Cyprinidae) in Croatia and in Bosnia and Herzegovina., *Nat. Croat.*, , , 11, 411-437, ,