

# Chondrostoma phoxinus

Taxonomic Authority: Heckel, 1843

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 the Karst region (endorheic basins) and river basins in Croatia (river Cetina) and Bosnia-Herzegovina [Glamocko, Livansjiko, Duvanjsko poljes] and lake Busko Jezero.

### Habitat and Ecology Information:

Lives in streams and lakes, and in small satellite lakes near rivers.

### Conservation Measures:

Listed in the Appendix III of the Bern Convention.

### Threats:

Water abstraction, alien species, pollution, and habitat loss.

### Species population information:

The sub-population in Croatia has declined and the sub-population in Bosnia Bushko is likely to decline following the introduction of an alien predator.

## 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

5.1 Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls)	1
5.2 Wetlands (inland) - Seasonal/Intermittent/Irregular Rivers/Streams/Creeks	1
5.18 Wetlands (inland) - Karst and Other Subterranean Hydrological Systems (inland)	1

## Lower Level Habitat Preferences

Score

## Major threats

Code	Description of threat	Past	Present	Future
1	Habitat Loss/Degradation (human induced)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3	Extraction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.6	Groundwater extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.4	Infrastructure development	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.6	Dams	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Pollution (affecting habitat and/or species)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input type="checkbox"/>	<input 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"/>
9	Intrinsic factors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9.2	Poor recruitment/reproduction/regeneration	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9.9	Restricted range	<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"/>
3.10	Other	<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%	Not used at all.
Source of specimens in commercial trade	100%	>75%	51-75%	26-50%	<25%	Other forms removed from the wild:
						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: Endangered (EN)  Possibly Extinct

Red List Criteria: B1ab(i,ii,iii,iv,v)

Rationale for the Red List Assessment: A restricted range species (EOO < 5,000km<sup>2</sup>) only known from less than 5 locations which are impacted by water extraction, introduced species and pollution. This has resulted in a decline in EOO and AOO and many sub-populations are reported to have been lost in Croatia. Habitat quality has also declined due to habitat modifications such as resulting from hydropower developments.

Current Population Trend: Unknown

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli

Evaluator: Mrakovcic, M. & Freyhof, J.

Notes on Red listing:

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### **Bibliography**

Elvira, B., 1997, Taxonomy of the genus *Chondrostoma* (Osteichthyes, Cyprinidae): an updated review., *Folia Zoologica*, , 46 (Suppl. I.), 1-14, ,