

Phoxinellus krbavensis

Taxonomic Authority: Zupancic & Bogutskaya, 2002

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 one karstic spring (Modro Oko) in the Krbavsko Polje in Croatia. It has disappeared from karstic streams.

Habitat and Ecology Information:

It lives in rivers, springs and caves. It prefers slow current and clear water.

Conservation Measures:

None.

Threats:

Drought, alien species and water extraction and road construction. Also there is a possibility that war in the region has damaged the karstic system. (Bogutskaya pers comm)

Species population information:

No data.

Country Distribution

| | Native - Presence Confirmed | Native - Presence Possible | Extinct | Reintroduced | Introduced | Vagrant |
|---------|-------------------------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 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 | 1 |
| 5.18 | Wetlands (inland) - Karst and Other Subterranean Hydrological Systems (inland) | 1 |

Major threats

| Code | Description of threat | Past | Present | Future |
|-------|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 | Habitat Loss/Degradation (human induced) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.3 | Extraction | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.3.6 | Groundwater extraction | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 | Invasive alien species (directly affecting the species) | <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 checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7.1 | Drought | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 | Intrinsic factors | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9.1 | Limited dispersal | <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"/> |
| 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% | 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: Critically Endangered (CR) Possibly Extinct

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

Rationale for the Red List Assessment: P. krbavensis has an extremely limited distribution with an AOO<10km² (EOO<100km²) as it is only found in one karstic spring Modro Oko. Due to drought and alien species there is a continuing decline in AOO and sub populations (it has disappeared from streams in Krbavsko Polje streams).

Current Population Trend: Unknown

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli

Evaluator: J. Freyhof, N. Bogutskaya

Notes on Red listing:

Bibliography

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, ,

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, ,