

Economidichthys trichonis

Taxonomic Authority: Economidis & Miller, 1990

Synonyms:

Region: 1

Common Names:

Order: Perciformes

Family: Gobiidae

Notes on taxonomy:

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

Restricted to Lake Trichonis and Lyssimachia in south-western Greece.

Habitat and Ecology Information:

A lacustrine species. It is the smallest freshwater European teleost at maturity: 18 mm with a maximum length of 25 mm. It is a semelparous species dying just after spawning. Parental care is provided by the males.

Conservation Measures:

The integrated water resources management plan for the Trichonis Lake (developed in the framework of the Life - Nature '99 project entitled: 'Actions for the preservation of Calcareous fens in Trichonis lake') should be implemented in the area aiming to eliminate the present high water level fluctuations in the lake on both annual and monthly basis. This will decrease the environmental impacts from the water abstractions for irrigation during the dry period and will facilitate preservation of the ecologically important habitats, in the broader area.

Threats:

Water pollution, water extraction (lake level now fluctuates), and potentially habitat impacts from bottom trawling.

Species population information:

Common in specific sites within the lakes. Maybe declining.

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"/>

Upper Level Habitat Preferences

Score

Lower Level Habitat Preferences

Score

5.5 Wetlands (inland) - Permanent Freshwater Lakes (over 8ha) 1

Major threats

Code	Description of threat
12	Unknown

Past Present Future

Conservation Measures

Code Conservation measures

In place Needed

1	Policy-based actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.2	Legislation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.2.1	Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.2.1.1	International level	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.2.1.2	National level	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.2.2	Implementation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.2.2.1	International level	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.2.2.2	National level	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Research actions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3.1	Taxonomy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.2	Population numbers and range	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.3	Biology and Ecology	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.4	Habitat status	<input checked="" type="checkbox"/>	<input 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"/>
4.4	Protected areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.4.1	Identification of new protected areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.4.2	Establishment	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.4.3	Management	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	Species-based actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.7	Ex situ conservation actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.7.1	Captive breeding/Artificial propagation	<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% 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:

None in commercial fish produced through domestication/selection over last 100 years.

CITES:

Red Listing

Red List Assessment: Endangered (EN)

Possibly Extinct

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

Rationale for the Red List Assessment: A common species, although its population status is unknown. It is restricted to two lakes (estimated EOO < 5,000 km², AOO < 500 km²) which are suffering from eutrophication, loss of reed beds due to land reclamation, and lake level decline due to water extraction. The species distribution is treated as a single location due to the connection between the two lakes.

Current Population Trend: Unknown

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli

Evaluator: Barbieri, R. & Kottelat, M.

Notes on Red listing:

Bibliography

- Economidis, P.S. & Miller, P.J., 1990, Systematics of freshwater gobies from Greece., *Journal of Zoology, London*, , 221, 125-170, ,
- Daoulas, C., Economou, A.N., Psarras, T. & Barbieri-Tseliki, R., 1993, Reproductive strategies and early development of three freshwater gobies., *Journal of Fish Biology*, , 42, 749-776, ,
- Bianco, P.G., Bullock, A.M., Miller, P.J. & Roubal, F.R., 1987, A unique teleost dermal organ in a new European genus of fishes (Teleostei: Gobioidae)., *Journal of Fish Biology*, , 31, 797-803, ,
- Dimitriou E., Zacharias I. & Koussouris, Th., 2001, Water resources management plan for Trichonis lake catchment. Final Report., , Actions for the protection of calcareous bogs/fens in Trichonis Lake", Technical Report, NCMR/IIW., Zacharias, I. & Koussouris, Th., , 70, ,