

Eudontomyzon hellenicus

Region: 1

Taxonomic Authority: Vladykov, Renaud, Kott & Economidis, 1982

Synonyms:

Common Names:

Greek lamprey

Order: Petromyzontiformes

Family: Petromyzontidae

Notes on taxonomy: Work is needed to confirm that the Lourous population is conspecific with the type locality in Strymon.

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

Only known from the Strymon and Louros basins in Greece. In the Strymon basin, it is located only in two brooks (Ayannis spring and Mylopotamos Kefalari). More recent, extensive survey has, however, failed to find the species in the Louros basin.

Habitat and Ecology Information:

It lives in cold water springs and spring-fed streams. Reproduction takes place in December and January. It is a non-parasitic lamprey and it does not feed as an adult.

Conservation Measures:

Listed in Annex II of Habitat Directive of EU and in Appendix III of the Bern Convention. Protected by a special national law in Greece (not enforced).

Threats:

Habitat destruction, water extraction.

Species population information:

No data.

Country Distribution

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

5.9 Wetlands (inland) - Freshwater Springs and Oases

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 checked="" type="checkbox"/>	<input type="checkbox"/>
1.3	Extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2	Legislation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.3.6	Groundwater extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.1	Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Pollution (affecting habitat and/or species)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.2.1.1	International level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.3	Water pollution	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.2.2	Implementation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.3.1	Agriculture	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.2.2.1	International level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.3.2	Domestic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	Research actions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.3	Commercial/Industrial	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.1	Taxonomy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.3.8	Sewage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.2	Population numbers and range	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	Natural disasters	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.3	Biology and Ecology	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7.1	Drought	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.4	Habitat status	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	Intrinsic factors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.5	Threats	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.9	Restricted range	<input checked="" type="checkbox"/>	<input checked="" 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"/>
					4.2	Restoration	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					4.4	Protected areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					4.4.2	Establishment	<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: Critically Endangered (CR) Possibly Extinct

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

Rationale for the Red List Assessment: This species is only known from two river basins with a total estimated EOO < 100 km² and AOO < 10 km². Extensive survey has failed to find this species in one of these basins, the Louros,

indicating a decline in the EOO and AOO. There is also a reported decline in quality of habitat due to water pollution, the number of locations, and number of mature individuals. It is also quite possible that the population within the Strymon river basin no longer exists - more survey is recommended. On this basis the species is assessed as Critically Endangered.

Current Population Trend: Unknown

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli

Evaluator: Barbieri, Kottelat

Notes on Red listing: The question has been raised as to whether the populations of Louros and Strymon basins may be two distinct species.

Bibliography

Vladykov, V.D., Renaud, C.B., Kott, E. & Economidis, P.S., 1982, A new non-parasitic species of Holarctic lamprey, genus *Eudontomyzon* Regan, 1911 (Petromyzontidae), from Greece., *Canadian Journal of Zoology*, , 60, 2897-2915, ,
Renaud, C.B., 1986, *Eudontomyzon hellenicus*, , *The Freshwater Fishes of Europe*, J. Holcik, 1, 186-195, Aula-Verlag, Wiesbaden, Germany