

Salmo peristericus

Taxonomic Authority: Karaman, 1938

Synonyms:

Region: 1

Common Names:

Order: Salmoniformes

Family: Salmonidae

Notes on taxonomy: It is considered sometimes only as a subspecies

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

It is restricted to the Agios Germanos stream in the Prespa Lakes region, north-western Greece. It might be also present in one or two streams in FYROM part of Lake Megali Prespa.

Habitat and Ecology Information:

Its lives in a mountain stream. The population is present in 24,5 km out of 34,5km. Its habitat is fragmented by some impassable waterfalls.

Conservation Measures:

Angling is regulated according to the National law. Part of the species range is covered by a National Park.

Threats:

Water extraction (although it is downstream), erosion within the catchment due to overgrazing, poaching with nets and chlorine, and organic pollution.Small electro-power stations.

Species population information:

Its population in Agios Germanos stream has been estimated between 3300 and 6700 individuals (Crivelli, A. unpublished data).

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"/>
Macedonia, the former Yugoslav Republ	<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

5.1 Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls)

1

Major threats

Code	Description of threat	Past	Present	Future
1	Habitat Loss/Degradation (human induced)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3	Extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.6	Groundwater extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4	Infrastructure development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.6	Dams	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Invasive alien species (directly affecting the species)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Accidental mortality	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4.1	Bycatch	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4.1.1	Fisheries-related	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4.1.1.2	Netting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4.1.1.5	Poisoning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Pollution (affecting habitat and/or species)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.1	Agriculture	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.2	Domestic	<input type="checkbox"/>	<input checked="" 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"/>
8	Changes in native species dynamics	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.4	Hybridizers	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	Intrinsic factors	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.1	Limited dispersal	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.9	Restricted range	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Human disturbance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10.1	Recreation/tourism	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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"/>
4.4	Protected areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.4.2	Establishment	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	Species-based actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.3	Sustainable use	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.3.1	Harvest management	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Utilisation of Species

Purpose/Type of Use	Subsistence	National	International	Other purpose:		
1. Food - human	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Angling		
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:	Unknown					
Trend in offtake/harvest produced through domestication/cultivation over last five years:	Unknown					
CITES:	Not listed					

Red Listing

Red List Assessment: Endangered (EN)

Possibly Extinct

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

Rationale for the Red List Assessment: This species is present in two locations and has an AOO<500km² and an EOO<5,000km². These two populations have not yet been confirmed to be the same species, although it is believed that they are, and a survey is planned for the near future (Crivelli, A. pers comm). In one location (possible *S. peristericus*) there is a continuing decline in habitat quality due to domestic water pollution, overgrazing and erosion that destroys the spawning area. In the other location (definite *S. peristericus*) there is poaching, but this is not causing a continuing decline in the population (Crivelli A. pers comm). If these two populations are not the same species then *S. peristericus* will be VU D2 based on it being found in one location, with the potential threat of introduced species. Taxonomic work is required to confirm the status of the questionable population.

Current Population Trend: Stable

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli

Evaluator: J. Freyhof

Notes on Red listing:

Bibliography

- Crivelli, A.J., Catsadorakis, G., Malakou, M. & Rosecchi, E., 1997, Fish and fisheries of the Prespa lakes., *Hydrobiologia*, , 351, 107-125, ,
- Delling, B., 2002, Morphological distinction of the Marble trout, *Salmo marmoratus*, in comparison to marbled *Salmo trutta* from river Otra, Norway., *Cybiu*, , 26, 283-300, ,
- Karakousis, Y., Triantaphyllidis, C. & Economidis, P.S., 1991, Morphological variability among seven populations of brown trout, *Salmo trutta* L., in Greece., *Journal of Fish Biology*, , 38, 807-817, ,
- Apostolidis, A.P., Karakousis, Y. & Triantaphyllidis, C., 1996, Genetic divergence and phylogenetic relationships among brown trout (*Salmo trutta* L.) populations from Greece and other European countries., *Heredity*, , 76, 551-560, ,