

Rana graeca

Taxonomic Authority: Boulenger, 1891

Synonyms:

Order: Anura

Notes on taxonomy:

Region: 10

Common Names:

Greek Stream Frog English

Family: Ranidae

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

This species is restricted to the Balkans, ranging from southeastern Bosnia Herzegovina in the northwest, through central and southern Serbia, Montenegro, Macedonia, Albania, most of Greece and southwestern and southern Bulgaria. It might occur in the European part of Turkey. It occurs at altitudes of 200 - 2,000m asl.

Habitat and Ecology Information:

This is a largely aquatic, montane species associated with cold small clear rivers, streams and springs often located in shady deciduous and mixed forest. It may also occur in moors and meadows, and around glacial pools in lakes. Breeding and larval development takes place in these waterbodies. It is presumed that the species can tolerate some slight habitat modification.

Conservation Measures:

It is listed on Annex IV of the EU Natural Habitats Directive and Appendix III of the Bern Convention. It is protected by national legislation in FR Yugoslavia (Kalezic and Dzukic, 2001). It occurs in a number of protected areas.

Threats:

The major threat to this species is the loss of suitable habitat often resulting from forest fires or wetland drainage. It is also affected in some places by pollution.

Species population information:

It is reported to be generally abundant in medium to high altitude areas (Gasc et al., 1997), and remains relatively widespread in the Serbia, Montenegro, Macedonia (Kalezic and Dzukic, 2001).

Country Distribution

	Native - Presence Confirmed	Native - Presence Possible	Extinct	Reintroduced	Introduced	Vagrant
Albania	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bosnia and Herzegovina	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bulgaria	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>
Turkey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Serbia and Montenegro	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FAO Marine Habitats

	Native - Presence Confirmed	Native - Presence Possible	Extinct	Reintroduced	Introduced
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Major Lakes

Major Rivers

Upper Level Habitat Preferences

	Score
1.4 Forest - Temperate	1
4.4 Grassland - Temperate	1
5.1 Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls)	1
5.2 Wetlands (inland) - Seasonal/Intermittent/Irregular Rivers/Streams/Creeks	1
5.9 Wetlands (inland) - Freshwater Springs and Oases	1
11.2 Artificial/Terrestrial - Pastureland	1

Lower Level Habitat Preferences

	Score
Cool Broadleaf Forest	1
Deciduous Broadleaf Wood	1
Mixed Forest	1
Urban	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"/>
1.1	Agriculture	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.1	Crops	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.1.2	Small-holder farming	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Conservation Measures

Code	Conservation measures	In place	Needed
1	Policy-based actions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2	Legislation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.1	Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.1.1	International level	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1.1.4	Livestock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.1.2 National level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.1.4.2	Small-holder	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.2 Implementation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.3	Extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.2.1 International level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.3.3	Wood	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2.2.2 National level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.3.3.1	Small-scale subsistence	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3 Research actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.3.2	Selective logging	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.2 Population numbers and range	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.4	Infrastructure development	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.3 Biology and Ecology	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.2	Human settlement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.4 Habitat status	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Pollution (affecting habitat and/or species)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.5 Threats	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.8 Conservation measures	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.1	Agriculture	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.9 Trends/Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					4 Habitat and site-based actions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					4.1 Maintenance/Conservation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					4.4 Protected areas	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					4.4.2 Establishment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
					4.4.3 Management	<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% <i>Other forms removed from the wild:</i>
Source of specimens in commercial trade	100%	>75%	51-75%	26-50% <25% <i>Other source of specimens:</i>
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: Not listed				

Red Listing

Red List Assessment: Least Concern (LC) Possibly Extinct

Red List Criteria:

Rationale for the Red List Assessment: Listed as Least Concern in view of its wide distribution, tolerance of a degree of habitat modification, presumed large population, and because it is unlikely to be declining fast enough to qualify for listing in a more threatened category.

Current Population Trend: Stable **Date of Assessment:** 12/17/2004

Assessor(s): Petros Lymbakis, Jellka Crnobrnja Isailovic, Rastko Ajtic, Milan Vogrin, Idriz Haxhiu

Notes on Red listing:

Bibliography

- Arnold, E.N., 2003, , Reptiles and amphibians of Europe, , 288, Princeton University Press,
- Kalezic, M. and Dzukic, G., 2001, Amphibian status in Serbia and Montenegro (FR Yugoslavia), FrogLog, , , 45, , ,
- , 1997, , Atlas of Amphibians and Reptiles in Europe, Gasc, J.-P., , 494, Societas Europea Herpetologica & Museum National d'Histoire Naturelle, Paris
- Dubois, A., 1885, Notes sur les grenouilles brunes (Groupe de Rana tempoaria Linné, 1758). IV. Note préliminaire sur Rana graeca Boulenger, 1891, Alytes, , , 4(4), 135-138, ,
- Picariello, O., Feliciello, I., Bellinello, R. and Chinali, G., 2002, S1 satellite DNA as a taxonomic marker in brown frogs: molecular evidence that Rana graeca graeca and Rana graeca italica are different species, Genome, , , 45(1), 63-70, ,
- Grillitsch, B., Grillitsch, H., Dubois A. and Splechtna, H., 1993, The tadpoles of the brown frogs Rana [graeca] graeca and Rana [graeca] italica (Amphibia, Anura), Alytes, , , 11(4), 117-139, ,