

Triturus marmoratus

Taxonomic Authority: (Latreille, 1800)

Synonyms:

Region: 10

Common Names:

Marbled Newt English
Tritón Jaspeado Spanish

Order: Caudata

Family: Salamandridae

Notes on taxonomy:

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

This species can be found in much of northern Iberia, and central, southern and western France. This species was introduced to the area of Turin, Italy but is now presumed to be extinct here (J.W. Arntzen pers comm.). Present from sea level to elevations approaching 2,100m asl.

Habitat and Ecology Information:

Aquatic habitats include well-vegetated ponds, pools, ditches and streams generally within dry woodlands, heath land, fields and rough grassland. Breeding and larval development take place in many different types of permanent and temporary water sources, usually with aquatic vegetation for reproduction. May occur in slightly modified habitats such as traditional farmland.

Conservation Measures:

Protected by national legislation throughout its range (Gasc et al., 1997). Listed on Annex IV of the EU Natural Habitats Directive. Listed on Annex III of the Berne Convention. Present in a number of protected areas. In Portugal it is present in Peneda-Gerês National Park where the population of Carris Lake has been severely impacted by disease. Further research into the impacts of disease on this species is needed. Reintroductions and/or translocations of this species have been made in the area of Madrid, Spain.

Threats:

Major threats are agricultural intensification, drainage, pollution, and eutrophication of aquatic habitats through intensive agricultural. Mass mortality of the species through disease (iridovirus) has been recorded in Carris Lake, Peneda-Gerês National Park, Portugal. The disease may be non-native and have been transferred to the lake by an introduced predatory fish (*Lepomis gibbosus*). Predation by *L. gibbosus* and other introduced predatory fish and crayfish (*Procamabrus clarkii*) species is also a threat to *T. marmoratus* in parts of its range. There is some illegal collection of the species for the pet trade.

Species population information:

It is locally abundant in suitable habitat. It is locally endangered in central France, less threatened in southern France, and not particularly threatened in Spain and Portugal.

Country Distribution

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

FAO Marine Habitats

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

Major Lakes

Major Rivers

Upper Level Habitat Preferences

	Score
1.4 Forest - Temperate	1
3.4 Shrubland - 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
5.5 Wetlands (inland) - Permanent Freshwater Lakes (over 8ha)	1
5.6 Wetlands (inland) - Seasonal/Intermittent Freshwater Lakes (over 8ha)	1
5.7 Wetlands (inland) - Permanent Freshwater Marshes/Pools (under 8ha)	1
5.8 Wetlands (inland) - Seasonal/Intermittent Freshwater Marshes/Pools (under 8ha)	1
11.1 Artificial/Terrestrial - Arable Land	1
11.2 Artificial/Terrestrial - Pastureland	1

Lower Level Habitat Preferences

	Score
Cool Broadleaf Forest	1
Cool Crops and Towns	2
Crops and Towns	2
Deciduous Broadleaf Wood	1
Forest and Field	1
Grass Crops	1
Mixed Forest	1
Small Leaf Mixed Woods	1

11.5 Artificial/Terrestrial - Urban Areas	2
12.2 Artificial/Aquatic - Ponds (below 8ha)	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"/>
1.1.1.3	Agro-industry farming	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.4	Livestock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.4.3	Agro-industry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4	Infrastructure development	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.1	Industry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.2	Human settlement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Invasive alien species (directly affecting the species)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2.2	Predators	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2.4	Pathogens/parasites	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	Harvesting (hunting/gathering)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3.5	Cultural/scientific/leisure activities	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3.5.3	Regional/international trade	<input checked="" type="checkbox"/>	<input checked="" 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"/>
6.3	Water pollution	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.1	Agriculture	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.2	Domestic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.3	Commercial/Industrial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	Changes in native species dynamics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8.5	Pathogens/parasites	<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"/>
1.2.1.2	National level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2	Implementation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2.1	International level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2.2	National level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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"/>
3.6	Uses and harvest levels	<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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4.1	Maintenance/Conservation	<input checked="" 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	Species-based actions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.1	Re-introductions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.5	Disease, pathogen, parasite management	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Utilisation of Species

Purpose/Type of Use	Subsistence	National	International	Other purpose:		
13. Pets/display animals, horticulture	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Primary forms removed from the wild	100%	>75%	51-75%	26-50%	<25%	Other forms removed from the wild:
1. Whole animal/plant	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Source of specimens in commercial trade	100%	>75%	51-75%	26-50%	<25%	Other source of specimens:
Wild	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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:						
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 broad range of habitats, 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: Decreasing

Date of Assessment: 12/17/2004

Assessor(s): Jan Willem Arntzen, Robert Jehle, Jaime Bosch, Claude Miaud, Miguel Tejedo, Miguel Lizana, Ifigo Martínez-Solano, Alfredo Sa

Notes on Red listing:

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