

# Triturus boscai

**Taxonomic Authority:** (Lataste, 1879)

**Synonyms:**

**Region:** 10

**Common Names:**

Bosca's Newt	English
Iberian Newt	English
Tritón Ibérico	Spanish

**Order:** Caudata

**Family:** Salamandridae

**Notes on taxonomy:**

## General Information

**Biome**  Terrestrial  Freshwater  Marine

### **Geographic Range of species:**

This species is restricted to the western part of the Iberian Peninsula. It occurs from sea level to elevations approaching 1,870m asl, but is mostly present between 400 and 1,000m asl.

### **Habitat and Ecology Information:**

This is a largely aquatic species, with vegetated shallow ponds and streams being the preferred habitat. It may also be found in cattle troughs, lagoons, streams and deep still waters, and is frequently found in temporary ponds. It occupies a diverse range of terrestrial habitats including eucalyptus plantations, pine groves, open Oak (*Quercus*) woodland, scrub and sandy coastal areas. The species may be found in traditionally farmed areas.

### **Conservation Measures:**

The species is listed on Appendix III of the Berne Convention, and is protected by national legislation in Spain. It is present in Parque Nacional de las Islas Atlánticas de Galicia, Parque Nacional de Doñana and Parque Nacional de Cabañeros in Spain. In Portugal, it has been recorded from Peneda-Gerês National Park.

### **Threats:**

The species is mostly threatened by the loss of breeding pools caused by drainage for agriculture and urbanisation. Some mortality in this species through disease (iridovirus) has been recorded in Carris Lake, Peneda-Gerês National Park, Portugal. This disease may be non-native and is thought to have been transferred to the lake by an introduced predatory fish (*Lepomis gibbosus*). Predation by introduced fish and other introduced species (such as crayfish (*Procamabrus clarkii*) and mink (*Mustela vison*)) is also a threat to *T. boscai*. However, in much of its range, the species is resistant and its populations are stable.

### **Species population information:**

The species is relatively common in suitable habitat, although populations in a small part of central Spain (especially in the Province of Madrid) are reported to be rapidly decreasing. It is more common towards the west of its range.

## Country Distribution

	Native - Presence Confirmed	Native - Presence Possible	Extinct	Reintroduced	Introduced	Vagrant
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 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
3.8 Shrubland - Mediterranean-type Shrubby Vegetation	1
5.1 Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls)	1
5.2 Wetlands (inland) - Seasonal/Intermittent/Irregular Rivers/Streams/Creeks	2
5.4 Wetlands (inland) - Bogs, Marshes, Swamps, Fens, Peatlands	1
5.5 Wetlands (inland) - Permanent Freshwater Lakes (over 8ha)	2
5.6 Wetlands (inland) - Seasonal/Intermittent Freshwater Lakes (over 8ha)	2
5.7 Wetlands (inland) - Permanent Freshwater Marshes/Pools (under 8ha)	1

## Lower Level Habitat Preferences

	Score
Marsh Wetland	1
Mire, Bog, Fen	1

5.8	Wetlands (inland) - Seasonal/Intermittent Freshwater Marshes/Pools (under 8ha)	1
10.2	Coastline - Sand, Shingle or Pebble Shores (incl. sand bars, spits, sandy islets, dune systems)	1
11.1	Artificial/Terrestrial - Arable Land	1
11.2	Artificial/Terrestrial - Pastureland	1
11.4	Artificial/Terrestrial - Rural Gardens	1
12.1	Artificial/Aquatic - Water Storage Areas (over 8ha)	1
12.2	Artificial/Aquatic - Ponds (below 8ha)	1
13	Introduced vegetation	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"/>
1.1.1.4	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"/>
1.4.2	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"/>
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"/>

### 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"/>
3.2	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"/>
3.8	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 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 type="checkbox"/>	<input checked="" 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:
Primary forms removed from the wild	100%	>75%	51-75%	26-50% <25%
Source of specimens in commercial trade	100%	>75%	51-75%	26-50% <25%

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): Jan Willem Arntzen, Pedro Beja, Robert Jehle, Jaime Bosch, Miguel Tejedo, Miguel Lizana, Iñigo Martínez-Solano, Alfredo Salva

Notes on Red listing:

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