

Rana iberica

Taxonomic Authority: Boulenger, 1879

Synonyms:

Region: 10

Common Names:

Iberian Frog English
Rana Patilarga Spanish

Order: Anura

Family: Ranidae

Notes on taxonomy:

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

This species is endemic to Portugal and northwestern and central Spain. It mostly occurs in montane areas up to 2,425m asl (Sierra de Béjar, central Spain). Isolated populations of this species are present in the Basque Country, Central System mountains, Extremadura in Spain and Marinha Grande and Serra de S. Mamede in Portugal.

Habitat and Ecology Information:

It is an aquatic species usually found in shady habitats (with abundant vegetation) close to rivers, streams, lakes and marshes. The species' terrestrial habitats include woods, moors, meadows and areas of low scrub. In the north it can occur down to sea level along slower flowing rivers. Breeding and larval development takes place within various shallow stagnant waterbodies. It is very sensitive to water pollution.

Conservation Measures:

It is listed on Appendix II of the Berne Convention and on Annex IV of the EU Natural Habitats Directive. It is protected by national legislation in Spain and is listed in the Spanish national Red Data Book as Vulnerable. It is present in the Natural Park of Gorbea and Sierra de Izkiz in Spain.

Threats:

Threats to this species include pressure from tourism development, urbanisation of the lowland range, habitat loss through intensification of agriculture, deforestation and re-afforestation with non-native monocultures, introduction of non-native predatory fishes (salmonids) and mammals (Mustela vison), desertification in southern Portugal and habitat loss through hydroelectric projects.

Species population information:

It is reasonably common in northern Portugal and northwestern Spain. Populations in the Central System Mountains and Extremadura of Spain are declining very seriously. There is also evidence of population declines in the Sierra de Guadarrama (Madrid, Spain).

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
-----------------------------	----------------------------	---------	--------------	------------

Major Lakes

Major Rivers

Upper Level Habitat Preferences

Score

Lower Level Habitat Preferences

Score

5.1 Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls)	1	Marsh Wetland	1
5.2 Wetlands (inland) - Seasonal/Intermittent/Irregular Rivers/Streams/Creeks	2	Mire, Bog, Fen	1
5.4 Wetlands (inland) - Bogs, Marshes, Swamps, Fens, Peatlands	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"/>
1.1.2	Wood plantations	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.1.2.2	Large-scale	<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"/>
1.3	Extraction	<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"/>

1.3.3	Wood	<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"/>
1.3.3.3	Clear-cutting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.3	Biology and Ecology	<input 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"/>	3.4	Habitat status	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.2	Predators	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.5	Threats	<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"/>	3.8	Conservation measures	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.9	Trends/Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.3.1	Agriculture	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	Habitat and site-based actions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	Natural disasters	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4.1	Maintenance/Conservation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7.1	Drought	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4.4	Protected areas	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					4.4.1	Identification of new protected areas	<input 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"/>

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: Near Threatened (NT) Possibly Extinct

Red List Criteria:

Rationale for the Red List Assessment: Listed as Near Threatened because this species is in significant decline (but probably at a rate of less than 30% over ten years), thus making the species close to qualifying for Vulnerable.

Current Population Trend: Decreasing

Date of Assessment: 4/5/2004

Assessor(s): Miguel Tejado, Jaime Bosch, Iñigo Martínez-Solano, Alfredo Salvador, Mario García-París, Ernesto Recuero Gil

Notes on Red listing:

Bibliography

- Arnold, E.N., 2003, , Reptiles and amphibians of Europe, , 288, Princeton University Press,
- Arano, B., Esteban, M. and Herrero, P., 1993, Evolutionary Divergence of the Iberian Brown Frogs, Ann Sci Natur-Zool Biol Anim., , 14(2), 49-57, ,
- Lizana, M., Pérez-Mellado, V. and Ciudad, M.J., 1990, Analysis of the structure of an amphibian community in the Central System of Spain, Herpetological Journal, , 1, 435-446, ,
- Godinho, R., Teixeira, J., Rebelo, R., Segurado, P., Loureiro, A., Álvares, F., Gomes, N., Cardoso, P., Camilo-Alves, C. and Brito, J.C., 1999, Atlas of the continental Portuguese herpetofauna: an assemblage of published and new data, Revista Española de Herpetología, , 13, 61-81, ,
- , 1997, , Atlas of Amphibians and Reptiles in Europe, Gasc, J.-P., , 494, Societas Europea Herpetologica & Museum National d'Histoire Naturelle, Paris
- Galán, P., 1989, Diferenciación morfológica y selección de hábitats en las ranas pardas del noroeste ibérica: Rana iberica Boulenger, 1879 y Rana temporaria parvipalmata Seoane, 1885, Treballs. Soc. Cat. Ictio. Herp., , 2, 193-209, ,
- Pleguezuelos, J.M., Márquez, R. and Lizana, M., 2002, , Atlas y Libro Rojo de los Anfibios y Reptiles de España, , pp 584, Dirección General de la Conservación de la naturaleza-Asociación Herpetológica Española, Madrid
- Esteban, M. and Sanchiz, B., 2000, Differential growth and longevity in low and high altitude Rana iberica (Anura, Ranidae), Herpetological Journal, , 10(1), 19-26, ,
- Paulo, O., 1997, Amphibians in Portugal, FrogLog, , 21, , ,
- Sociedad para la Conservación de los Vertebrados (SCV), 2001, Situación actual y problemas de conservación de rana patilarga en la Comunidad de Madrid, Boletín SCV, , 8-9, 7-15, ,
- Martínez-Solano, I., Bosch, J. and García-París, M., 2003, Demographic trends and community stability in a montane amphibian assemblage, Conservation Biology, , 17(1), 238-244, ,
- Mensi, P., Lattes, A., Macario, B., Salvidio, S., Giacoma, C. and Balletto, E., 1992, Taxonomy and evolution of European brown frogs, Zoological Journal of the Linnean Society, , 104, 293-311, ,
- Galán, P., 1999, Conservación de la herpetofauna gallega. Situación actual de los anfibios y reptiles de Galicia, Universidade da Coruña, Monografía 72. A Coruña., , , 286pp, ,
- Pleguezuelos, J.M., 1997, , Distribucion y Biogeografía de los Anfibios y Reptiles en España y Portugal, , , Asociacion Herpetologica Española, Las Palmas de Gran Canarias
- García-París, M. and Martín, C., 1987, Amphibians of the Sierra del Guadarrama (1800-2430m altitude), , Proceedings. 4th Ordinary General Meeting of the Societas Europaea Herpetologica, van Gelder, J.J., Srijbosch, H. and Bergers, P.J., , 135-138, , Nijmegen, Netherlands
- Dubois, A., 1982, Notes sur les grenouilles brunes (Groupe de Rana temporaria Linne, 1758). I. Introduction, Alytes, , 1(4), 56-70, ,
- Malkmus, R., 2004, , Amphibians and reptiles of Portugal, Madeira and the Azores-Archipelago, , 448p, A.R.G. Gantner Verlag K.G., Ruggel (Germany)