

Native - Presence Confirmed Native - Presence Possible Extinct Reintroduced Introduced

FAO Marine Habitats

Major Lakes

Major Rivers

<u>Upper Level Habitat Preferences</u>		Score	<u>Lower Level Habitat Preferences</u>		Score
1.4	Forest - Temperate	1	Conifer Forest		1
3.4	Shrubland - Temperate	1	Mixed Forest		2
3.8	Shrubland - Mediterranean-type Shrubby Vegetation	1	Urban		1
4.4	Grassland - Temperate	1			
5.6	Wetlands (inland) - Seasonal/Intermittent Freshwater Lakes (over 8ha)	1			
5.8	Wetlands (inland) - Seasonal/Intermittent Freshwater Marshes/Pools (under 8ha)	1			
8.2	Desert - Temperate	2			
8.4	Desert - Semi-Desert (no trees present)	1			
10.1	Coastline - Rocky Shores (includes rocky offshore islands and sea cliffs)	2			
10.2	Coastline - Sand, Shingle or Pebble Shores (incl. sand bars, spits, sandy islets, dune systems)	1			
11.1	Artificial/Terrestrial - Arable Land	2			
11.2	Artificial/Terrestrial - Pastureland	1			
11.4	Artificial/Terrestrial - Rural Gardens	2			
12.2	Artificial/Aquatic - Ponds (below 8ha)	1			
12.5	Artificial/Aquatic - Excavations (open)	1			
12.7	Artificial/Aquatic - Irrigated Land (includes irrigation channels)	2			
12.8	Artificial/Aquatic - Seasonally Flooded Agricultural Land	2			
12.9	Artificial/Aquatic - Canals and Drainage Channels, Ditches	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"/>
1.1.2.1	Small-scale	<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"/>
1.4.3	Tourism/recreation	<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"/>
6.1	Atmospheric pollution	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.1.2	Acid precipitation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	Human disturbance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10.1	Recreation/tourism	<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"/>
1.1	Management plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.1.1	Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.1.2	Implementation	<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"/>
1.2.1.2	National level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.1.3	Sub-national level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2	Implementation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2.2	National level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2.3	Sub-national level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Communication and Education	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.2	Awareness	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4.2	Restoration	<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 checked="" type="checkbox"/>
5.1	Re-introductions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5.7	Ex situ conservation actions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.7.1	Captive breeding/Artificial propagation	<input checked="" type="checkbox"/>	<input 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, presumed large population, and because the total population 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): Pedro Beja, Sergius Kuzmin, Trevor Beebee, Mathieu Denoël, Benedikt Schmidt, David Tarkhnishvili, Natalia Ananjeva, Nikolai

Notes on Red listing: The listing of the species as Least Concern is based on its healthy population status, especially in Portugal, Spain and southern France. Through much of northern, central and eastern Europe, and in the former Soviet Union, this species is in long-term decline, and it is considered to be threatened in many countries.

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