

Garra ghorensis

Taxonomic Authority: Krupp, 1982

Synonyms:

Region: 1

Common Names:

Order: Cypriniformes

Family: Cyprinidae

Notes on taxonomy:

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

This species is restricted to springs and widyan in the southern Dead Sea area in Jordan and Israel (south of Mujib River to Wadi Fifa).

Habitat and Ecology Information:

This fish inhabits shallow fast and clear waters with stony beds. It is small size fish (<120 mm total length).

Conservation Measures:

None known to be in place.

Threats:

Construction of dams, changing in water courses, water extraction for domestic uses and irrigation for agriculture. Another potential threat is the introduction of invasive alien fish species, such as Oreochromis aureus in Jordan and mosquito fish, Gambusia affinis is probably the cause of its extinction in most sites located in Israel. Pollution is also a problem.

Species population information:

Small population. Almost extinct in Israel. Population in Jordan declining.

Country Distribution

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

Upper Level Habitat Preferences

5.9 Wetlands (inland) - Freshwater Springs and Oases

Score 1

Lower Level Habitat Preferences

Score

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"/>
1.3	Extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.6	Groundwater extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4	Infrastructure development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.6	Dams	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Invasive alien species (directly affecting the species)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Pollution (affecting habitat and/or species)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	Natural disasters	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7.1	Drought	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	Intrinsic factors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9.1	Limited dispersal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9.9	Restricted range	<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 type="checkbox"/>	<input checked="" type="checkbox"/>
1.2	Legislation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.2.1	Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.2.1.2	National level	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.2.2	Implementation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1.2.2.2	National level	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Research actions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3.1	Taxonomy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.2	Population numbers and range	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.3	Biology and Ecology	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.4	Habitat status	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.5	Threats	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.8	Conservation measures	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.9	Trends/Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Habitat and site-based actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.1	Maintenance/Conservation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.4	Protected areas	<input 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 type="checkbox"/>	<input checked="" 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:
				Not used
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:

Red Listing

Red List Assessment: Critically Endangered (CR) Possibly Extinct

Red List Criteria: B2ac(i,ii,iv)

Rationale for the Red List Assessment: This species is almost extinct in Israel and the population is declining in Jordan. In Israel, the population declined by at least 90% over the last ten years as a result of the synergistic effects of the introduced predator *Gambusia affinis* and habitat destruction and degradation. In Jordan, rate of decline is not known. Overall, it is estimated that the population has declined by at least 50% across the range. Area of occupancy less than 10km². Severely fragmented (at least five separate subpopulations) and there is continuing decline in range, habitat quality, number of subpopulations and possibly number of mature individuals.

Current Population Trend: Decreasing

Date of Assessment: 15/12/2004

Assessor(s): A.J. Crivelli

Evaluator: M. Goren, A. Karatash, F. Erk'akan & N. Bogutskaya

Notes on Red listing:

Bibliography

Hamidan, N.A. & Mir, S., 2003, The status of *Garra ghorensis* in Jordan: distribution, ecology and threats., *Zoology in the Middle East*, , , 30, 49-54, ,

Krupp, F., 1982, *Garra tibanica ghorensis* subsp. Nov. (Pisces, Cyprinidae), an African element in the cyprinid fauna of the Levant., *Hydrobiologia*, , , 88, 319-324, ,

Krupp, F. & Schneider, W., 1989, The fishes of the Jordan river drainage basin and the Azraq Oasis., *Fauna of Saudi Arabia*, , , 10, 347-416, ,

Goren, M. & Ortal, R., 1999, Biogeography, diversity and conservation of the inland water fish communities in Israel., *Biological Conservation*, , , 89, 1-9, ,