

Rutilus rubilio

Taxonomic Authority: (Bonaparte, 1837)

Synonyms:

Region: 1

Common Names:

Rovella

Italian

Order: Cypriniformes

Family: Cyprinidae

Notes on taxonomy: A revision of the genus Rutilus from southern Europe on morphological and molecular basis is in progress by Bianco P.G., Ketmaier, V. and Durand J.-Do. Some result are here anticipated. A small, dwarfed populations from River Ombrone, with 7 branched rays in the dorsal and 8 in the anal fins (features which separate this populations from any other Rutilus species) (Bianco & Taraborelli, 1985), represents a new species.

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

Restricted to the Tuscano-Latum district of Italy, and introduced to southern Italy and Sicily.

Habitat and Ecology Information:

A predominantly riverine species but it does enter lakes. A multispawner, which is both polyandry and polygynic. Reproduction is in March to July.

Conservation Measures:

Listed in Annex II of the Habitats Directive of EU and in Appendix III of the Bern Convention.

Threats:

Introduced alien species. The introduction of Rutilus aulais is reported to have caused the local extirpation of this species from all the lakes in central Italy.

Species population information:

A pioneer species subject to high fluctuations and able to recover quickly from decline. Overall the population is stable.

Country Distribution

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

Upper Level Habitat Preferences

Score

- | | | |
|-----|---|---|
| 5.1 | Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls) | 1 |
| 5.5 | Wetlands (inland) - Permanent Freshwater Lakes (over 8ha) | 1 |

Lower Level Habitat Preferences

Score

Major threats

Code	Description of threat	Past	Present	Future
1	Habitat Loss/Degradation (human induced)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3	Extraction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.6	Groundwater extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Invasive alien species (directly affecting the species)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Pollution (affecting habitat and/or species)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input type="checkbox"/>	<input 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"/>
1.2.2	Implementation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2.2.1	International 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"/>
3.8	Conservation measures	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.9	Trends/Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Utilisation of Species

Purpose/Type of Use

1. Food - human

Subsistence

National

International

Other purpose:

Used as fishing bait and for local consumption

Primary forms removed from the wild

1. Whole animal/plant

100%

>75%

51-75%

26-50%

<25%

Other forms removed from the wild:

Source of specimens in commercial trade

Wild

100%

>75%

51-75%

26-50%

<25%

Other source of specimens:

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:

Unknown

CITES: Not listed

Red Listing

Red List Assessment: Near Threatened (NT)

Possibly Extinct

Red List Criteria:

Rationale for the Red List Assessment: The species has disappeared from many lakes, and is fragmented in many rivers. It has decreased in range by over 30% in past 10 years mainly as a result of the introduction of alien species,

especially *C. genei* and *R. aula*. The species is close to being assessed as VU A2.

Current Population Trend: Unknown

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli

Evaluator: Bianco, G. & Kottelat, M.

Notes on Red listing:

Bibliography

Kottelat, M., 1997, European freshwater fishes, Biologia, Bratislava, , , 52/ Supplement 5, 1-271, ,

Bianco, P.G. & Taraborelli, T., 1985, Contributo all conoscenza del genere *Rutilus* Rafinesque in Italia e nei Balcani occidentali (Pisces, Cyprinidae), Boll. Mus. Reg. Sci. Nat. Torino, , , 3, 131-172, ,