

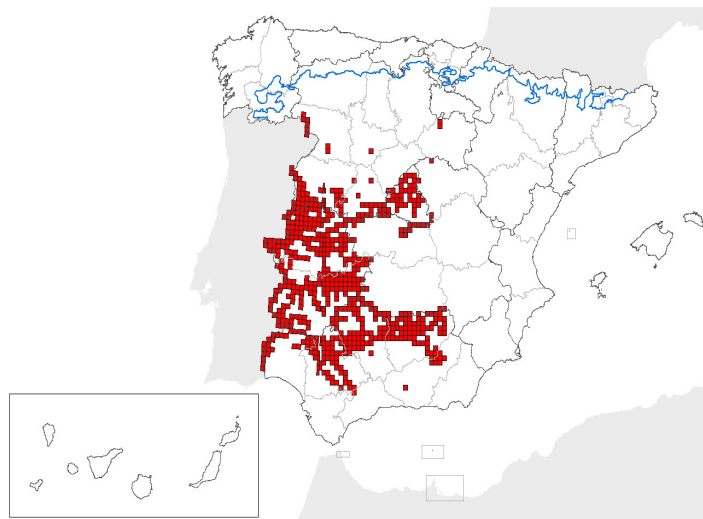
# Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

## Rutilus alburnoides

### 1. National level

Biogeographical regions and/or marine regions concerned within the Member State: **MED**

map-distribution



### 2. Biogeographical or marine level

2.1 Biogeographical region or marine region: **MEDITERRANEAN**

#### 2.2 Published sources and/or websites:

Alves, M. J., Coelho, M. M. & M. J. Collares-Pereira. 1997. The *Rutilus alburnoides* complex (Cyprinidae): evidence for a hybrid origin. *Journal of Zoological Systematics and Evolutionary Research*, 35(1): 1-10

Alves, M. J., Coelho, M. M., Collares-Pereira, M. J. & T. E. Dowling. 1997. Maternal ancestry of the *Rutilus alburnoides* complex (Teleostei, Cyprinidae) as determined by analysis of cytochrome b sequences. *Evolution*, 51(5): 1584-1592

Alves, M. J., Coelho, M. M. & M. J. Collares-Pereira. 1998. Diversity in the reproductive modes of females of the *Rutilus alburnoides* complex (Teleostei, Cyprinidae): a way to avoid the genetic constraints of uniparentalism. *Molecular Biology and Evolution*, 5(10): 1233-1242

Alves, M. J., Coelho, M. M., Prospero, M. I. & Collares-Pereira, M. J. 1999. Production of fertile unreduced sperm by hybrid males of the *Rutilus alburnoides* complex (Teleostei, Cyprinidae): an alternative route to genome tetraploidization in unisexuals. *Genetics*, 151(1): 277-283

Carmona, J. A., Sanjur, O., Doadrio, I., Machordom, A. & R. C. Vrijenhoek. 1997 Hybridogenetic reproduction and maternal ancestry of polyploid Iberian fish: the *Tropidophoxinellus alburnoides* complex. *Genetics*, 146(3): 983-993

Collares-Pereira, M. J., Alves, M. J. & M. M. Coelho. 1999 Reassessment of the generic position of the Iberian cyprinid *alburnoides* complex: its return to the genus *Leuciscus*. *Journal of Fish Biology*, 54(2): 465-468

Velasco, J.C.; Lizana, M.; Román, J.; Delibes, M. y Fernández, J. 2005. Guía de los peces, anfibios, reptiles y mamíferos de Castilla y León. Náyade Ed. Medina del Campo (Valladolid)

Martín Jiménez, C.M. 2006. Guía de peces de Castilla y León. Junta de Castilla y León. Ed. Cálamo, S.L. Palencia.

Martíns, M. J., Collares-Pereira, M. J., Cowx, I. G. & M. M. Coelho. 1998 Diploids v. triploids of *Rutilus alburnoides*: spatial segregation and morphological differences. *Journal of Fish Biology*, 52(4): 817-828

Doadrio, I.; Elvira, B. y Bernat, Y. 1991. Peces continentales españoles: Inventario y clasificación de zonas fluviales. ([http://www.mma.es/portal/secciones/biodiversidad/especies\\_amenazadas/vertebrados/peces/peces\\_continental/peces\\_continental.htm](http://www.mma.es/portal/secciones/biodiversidad/especies_amenazadas/vertebrados/peces/peces_continental/peces_continental.htm))

Doadrio, I. (Dtor.). 2000. Atlas de los peces continentales españoles. Convenio Ministerio de Medio Ambiente-Consejo Superior de

# Rutilus alburnoides

Investigaciones Científicas. Informe Inédito.  
([http://www.mma.es/portal/secciones/biodiversidad/inventarios/inb/atlas\\_Peces/indice.htm](http://www.mma.es/portal/secciones/biodiversidad/inventarios/inb/atlas_Peces/indice.htm))

## 2.3 Range of the species type in the biogeographic region or marine region

- 2.3.1 Surface area of species range in km2: 58649,3
- 2.3.2 Date of range determination: 2000-2006
- 2.3.3 Quality of data concerning range: Poor e.g. based on very incomplete data or on expert judgement
- 2.3.4 Range trend: Unknown (X)
- 2.3.5 Range trend magnitude in km2 (optional):
- 2.3.6 Range trend period: 1980-2000
- 2.3.7 Reasons for reported trend: Improved knowledge/more accurate data  
Indirect anthropo(zoo)genic influence

and/or specify

## 2.4 Population of the species in the biogeographic region or marine region

### 2.4.1 Population size estimation:

Population size estimation (minimum)	Population size estimation (maximum)	Population units
182	0	Number of localities

- 2.4.2 Date of population estimation: 2001-2006
- 2.4.3 Methods used for population estimation: From comprehensive inventory  
Extrapolation from surveys of part of the population or from sampling
- 2.4.4 Quality of data on area: Moderate e.g. based on partial data with some extrapolation
- 2.4.5 Population trend: Decreasing (-)
- 2.4.6 Population trend magnitude (km2):
- 2.4.7 Population trend period: 1980-2000
- 2.4.8 Reasons for reported trend: Indirect anthropo(zoo)genic influence  
Unknown

and/or specify:

### 2.4.9 Justification of % thresholds for trends (optional):

- 2.4.10 Main pressures: 110 Use of pesticides  
120 Fertilisation  
290 Hunting, fishing or collecting activities not referred to above  
300 Sand and gravel extraction  
301 - quarries  
701 - water pollution  
850 Modification of hydrographic functioning, general  
852 - modifying structures of inland water courses  
853 - management of water levels  
954 - invasion by a species  
961 - competition (example: gull/tern)
- 2.4.11 Threats 110 Use of pesticides  
120 Fertilisation  
290 Hunting, fishing or collecting activities not referred to above  
300 Sand and gravel extraction  
301 - quarries  
701 - water pollution  
850 Modification of hydrographic functioning, general  
852 - modifying structures of inland water courses

# Rutilus alburnoides

853 - management of water levels  
954 - invasion by a species  
961 - competition (example: gull/tern)

## 2,5 Habitat for the species in the biogeographic region or marine region

2.5.1 Habitats for the species:	Poco exigente, se encuentra tanto en arroyos de montañas como en zonas remans
2.5.2 Area estimation (km2):	3456,14
2.5.3 Date of estimation:	2000-2001
2.5.4 Quality of the data:	
2.5.5 Trend of the habitat:	
2.5.6 Trend period:	2001-2006
2.5.7 Reasons for reported trend:	DirectHuman IndirectHuman

Other (specify): Sobre el hábitat, las principales amenazas son la realización de diversas infraestr

**2.6 Future prospects for the species:** Poor prospects - species likely to struggle unless conditions change

## 2.7 Complementary information

2.7.1 Favourable reference range (km2):	
2.7.2 Favourable reference population:	
2.7.3 Suitable habitat for the species (km2):	
2.7.4 Other relevant information (optional):	Esta especie se cita en 25 LIC de la región biogeográfica Mediterránea en Castilla

Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Unknown (XX)	
Conclusions: (2.4) Population:	Unknown (XX)	
Conclusions: (2.5) Habitat for the species:	Unknown (XX)	
Conclusions: (2.6) Future prospects:	Bad (U2)	
Conclusions: Overall assessment:	Bad (U2)	