

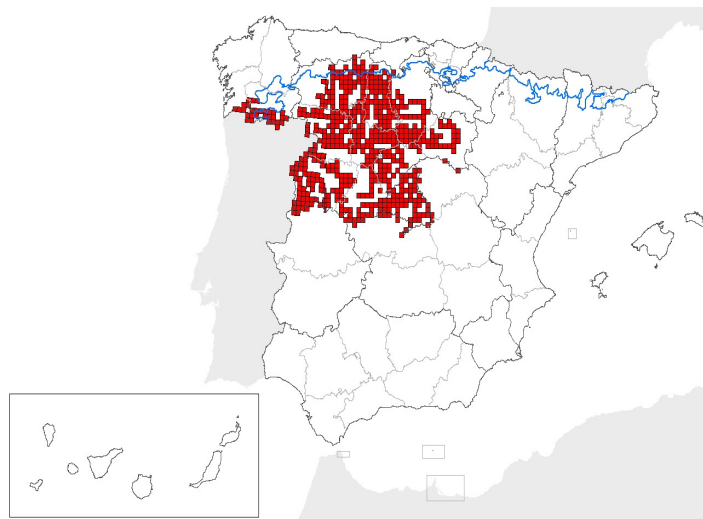
# Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

## Barbus bocagei

### 1. National level

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

map-distribution



### 2. Biogeographical or marine level

2.1 Biogeographical region or marine region: **ATLANTIC**

2.2 Published sources and/or websites:

Doadrio, I. (Ed.) (2001). Atlas y Libro Rojo de los Peces Continentales de España. DGCN-Museo Nacional de Ciencias Naturales (CSIC). Madrid, 364.

Hervella, P. & Caballero, F. (1999). Inventario Piscícola dos Ríos Galegos. Consellería de Medio Ambiente. Xunta de Galicia. Santiago, 126.

SGHN (1995). Atlas de Vertebrados de Galicia. Consello da Cultura Galega. Ponencia de Patrimonio Natural. Tomos I y II. Santiago.

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.

ÁLVAREZ, J., BEA, A., FAUS, J.M., CASTIÉN, E. y MENDIOLA, I. 1985. Atlas de los Vertebrados Continentales de Araba, Vizcaya y Guipúzcoa (excepto Chiroptera). Servicio Central de Publicaciones del Gobierno Vasco.

ÁLVAREZ, J. et al. 1998. Vertebrados continentales: situación actual en la Comunidad Autónoma del País Vasco. Gobierno Vasco.

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

2.3.1 Surface area of species range in km2: 2564,75

2.3.2 Date of range determination: 2001-2007

2.3.3 Quality of data concerning range: Moderate e.g. based on partial data with some extrapolation

2.3.4 Range trend: Stable (=)

2.3.5 Range trend magnitude in km2 (optional):

2.3.6 Range trend period:

2.3.7 Reasons for reported trend: Improved knowledge/more accurate data

and/or specify

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

# Barbus bocagei

2.4.1 Population size estimation:

Population size estimation (minimum)	Population size estimation (maximum)	Population units
27	44	Number of localities

2.4.2 Date of population estimation:

2.4.3 Methods used for population estimation:      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:

2.4.8 Reasons for reported trend:                      Improved knowledge/more accurate data  
and/or specify:

2.4.9 Justification of % thresholds for trends (optional):

2.4.10 Main pressures:                                      220 Leisure fishing  
301 - quarries  
701 - water pollution  
850 Modification of hydrographic functioning, general  
853 - management of water levels  
954 - invasion by a species  
966 - antagonism arising from introduction of species

2.4.11 Threats    220 Leisure fishing  
301 - quarries  
701 - water pollution  
830 Canalisation  
850 Modification of hydrographic functioning, general  
853 - management of water levels  
954 - invasion by a species  
966 - antagonism arising from introduction of species

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

2.5.1 Habitats for the species:                              Rios de corriente lenta. Ríos de pisos de planicie a montano con vegetación de Ra

2.5.2 Area estimation (km2):

2.5.3 Date of estimation:

2.5.4 Quality of the data:

2.5.5 Trend of the habitat:

2.5.6 Trend period:

2.5.7 Reasons for reported trend:                      NotApplicable

Other (specify):

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):

Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
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# Barbus bocagei

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:	Inadequate (U1)
Conclusions: Overall assessment:	Unknown (XX)

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

## 2.2 Published sources and/or websites:

Doadrio, I. (Ed.) (2001). Atlas y Libro Rojo de los Peces Continentales de España. DGCN-Museo Nacional de Ciencias Naturales (CSIC). Madrid, 364.

Hervella, P. & Caballero, F. (1999). Inventario Piscícola dos Ríos Galegos. Consellería de Medio Ambiente. Xunta de Galicia. Santiago, 126.

SGHN (1995). Atlas de Vertebrados de Galicia. Consello da Cultura Galega. Ponencia de Patrimonio Natural. Tomos I y II. Santiago.

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.

Collares-Pereira, M. J., Martins, M. J., Pires, A. M., Geraldés, A. M. & M. M. Coelho. 1996. Feeding behaviour of *Barbus bocagei* assessed under a spatio-temporal approach. *Folia Zoologica*, 45(1): 65-76.

Doadrio, I., Garzón, P., Álvarez, J. & P. Barrachina. 1987. La distribución del *Barbus bocagei* Steindachner, 1865 (Ostariophysi, Cyprinidae) en la Península Ibérica. *Doñana, Acta Vertebrata*, 14: 125-131.

Lobón-Cervia, J. & A. de-Diego. 1988. Feeding strategy of the barbel (*Barbus bocagei* Steind.) with relation to benthos composition. *Archiv Fur Hydrobiologie*, 114(1): 83-95.

Lobón-Cervia, J. & C. Fernández-Delgado. 1984. On the biology of the barbel (*Barbus barbus bocagei*) in the Jarama River. *Folia Zoologica*, 33(4): 371-384.

Magalhaes, M. F. 1992. Feeding ecology of the Iberian cyprinid *Barbus bocagei* Steindachner, 1865 in a lowland river. *Journal of Fish Biology*, 40(1): 123-133.

Rojó, A. 1987. The osteology of *Barbus bocagei* (Steindachner, 1866) (Pisces: Cyprinidae). *Doñana Acta Vertebrata*, 14: 5-40.

Rojó, A. & P. Ramos. 1982. Contribucion al conocimiento de la biometria y osteologia de *Barbus barbus bocagei*, Steindachner, 1866 (Pisces: Cyprinidae). *Doñana Acta Vertebrata*, 9: 27-39.

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\\_continentales/peces\\_continentales.htm](http://www.mma.es/portal/secciones/biodiversidad/especies_amenazadas/vertebrados/peces/peces_continentales/peces_continentales.htm)).

Doadrio, I. (Dtor.). 2000. Atlas de los peces continentales españoles. Convenio Ministerio de Medio Ambiente-Consejo Superior de 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:	53183,48
2.3.2 Date of range determination:	2000-2007
2.3.3 Quality of data concerning range:	Moderate e.g. based on partial data with some extrapolation
2.3.4 Range trend:	Stable (=)
2.3.5 Range trend magnitude in km2 (optional):	
2.3.6 Range trend period:	
2.3.7 Reasons for reported trend:	Improved knowledge/more accurate data

# Barbus bocagei

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
534	590	Number of localities

### 2.4.2 Date of population estimation:

### 2.4.3 Methods used for population estimation:

 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:

### 2.4.8 Reasons for reported trend:

 Direct human influence (restoration, deterioration, destruction)

and/or specify:

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

### 2.4.10 Main pressures:

 110 Use of pesticides  
120 Fertilisation  
220 Leisure fishing  
290 Hunting, fishing or collecting activities not referred to above  
301 - quarries  
701 - water pollution  
830 Canalisation  
850 Modification of hydrographic functioning, general  
852 - modifying structures of inland water courses  
853 - management of water levels  
952 - eutrophication  
954 - invasion by a species  
966 - antagonism arising from introduction of species

### 2.4.11 Threats

 110 Use of pesticides  
120 Fertilisation  
220 Leisure fishing  
290 Hunting, fishing or collecting activities not referred to above  
301 - quarries  
701 - water pollution  
850 Modification of hydrographic functioning, general  
853 - management of water levels  
952 - eutrophication  
954 - invasion by a species  
966 - antagonism arising from introduction of species

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

### 2.5.1 Habitats for the species:

 Ríos de corriente lenta. Ríos de pisos de planicie a montano con vegetación de Ra

### 2.5.2 Area estimation (km2):

### 2.5.3 Date of estimation:

### 2.5.4 Quality of the data:

### 2.5.5 Trend of the habitat:

### 2.5.6 Trend period:

### 2.5.7 Reasons for reported trend:

 NotApplicable

# Barbus bocagei

Other (specify):

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):

Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Favourable (FV)	
Conclusions: (2.4) Population:	Unknown (XX)	
Conclusions: (2.5) Habitat for the species:	Unknown (XX)	
Conclusions: (2.6) Future prospects:	Inadequate (U1)	
Conclusions: Overall assessment:	Unknown (XX)	