

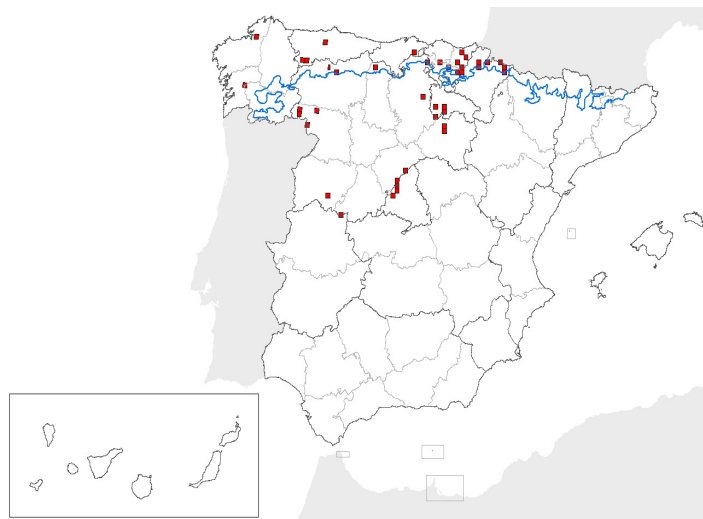
# Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

## Myotis mystacinus

### 1. National level

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

map-distribution



### 2. Biogeographical or marine level

2.1 Biogeographical region or marine region: **ALPINE**

2.2 Published sources and/or websites:

Alcalde, J. T. and M. C. Escala (1999). "Distribución de los quirópteros en Navarra, España." Bol. R. Soc. Esp. Host. Nat. (Sec. Biol.) 95 (1-2): 157-171.

Palomo, L. J. and J. Gisbert (2002). Atlas de los mamíferos terrestres de España. Madrid, DGCN-SECEM-SECEMU.

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

- 2.3.1 Surface area of species range in km2: 254,7
- 2.3.2 Date of range determination: 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:
- 2.3.7 Reasons for reported trend:  
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
4	0	Number of localities

2.4.2 Date of population estimation: 2006

2.4.3 Methods used for population estimation:

2.4.4 Quality of data on area: Poor e.g. based on very incomplete data or on expert judgement

2.4.5 Population trend: Unknown (X)

2.4.6 Population trend magnitude (km2):

2.4.7 Population trend period:

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2.4.8 Reasons for reported trend:

and/or specify:

2.4.9 Justification of % thresholds for trends (optional):

2.4.10 Main pressures: 166 - removal of dead and dying trees

2.4.11 Threats 166 - removal of dead and dying trees

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

2.5.1 Habitats for the species:

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:

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:	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: ATLANTIC

## 2.2 Published sources and/or websites:

Alcalde, J. T. and M. C. Escala (1999). "Distribución de los quirópteros en Navarra, España." Bol. R. Soc. Esp. Hist. Nat. (Sec. Biol.) 95 (1-2): 157-171.

Galán, P.; Barros, Á.; Cerqueira, F. & Seage, R. (2005). Datos sobre distribución de Quirópteros en el norte de Galicia. Galemys 17(1-2): 71-85

Palomo, L. J. and J. Gisbert (2002). Atlas de los mamíferos terrestres de España. Madrid, DGCN-SECEM-SECEMU.

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

Nores, C. & García-Rovés, P. 2007. Libro Rojo de la Fauna del Principado de Asturias. Consejería de Medio Ambiente, Ordenación del Territorio e Infraestructuras del Principado de Asturias-Obra Social "la Caixa".

AIHARTZA, J.R. 2001. Quirópteros de Araba, Bizkaia y Gipuzkoa: distribución, ecología y conservación. Universidad del País Vasco.

Fernández Gutiérrez, J. 2002. Los murciélagos en Castilla y León. Atlas de distribución y tamaño de las poblaciones. Junta de Castilla y León. Consejería de Medio Ambiente. Náyade Producciones, S.L. Valladolid.

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

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

- 2.3.1 Surface area of species range in km2: 1723
- 2.3.2 Date of range determination: 1970-2007
- 2.3.3 Quality of data concerning range:
- 2.3.4 Range trend: Unknown (X)
- 2.3.5 Range trend magnitude in km2 (optional):
- 2.3.6 Range trend period:
- 2.3.7 Reasons for reported trend:  
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
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- 2.4.2 Date of population estimation:
- 2.4.3 Methods used for population estimation:
- 2.4.4 Quality of data on area:
- 2.4.5 Population trend: Unknown (X)
- 2.4.6 Population trend magnitude (km2):
- 2.4.7 Population trend period:
- 2.4.8 Reasons for reported trend:  
and/or specify:
- 2.4.9 Justification of % thresholds for trends (optional):
- 2.4.10 Main pressures:
  - 110 Use of pesticides
  - 150 Restructuring agricultural land holding
  - 151 - removal of hedges and copses
  - 160 General Forestry management
  - 162 - artificial planting
  - 166 - removal of dead and dying trees
  - 180 Burning
  - 300 Sand and gravel extraction
  - 420 Discharges
  - 490 Other urbanisation, industrial and similar activities
  - 620 Outdoor sports and leisure activities
  - 700 Pollution
  - 720 Trampling, overuse
  - 740 Vandalism
- 2.4.11 Threats
  - 110 Use of pesticides
  - 150 Restructuring agricultural land holding
  - 151 - removal of hedges and copses
  - 160 General Forestry management
  - 162 - artificial planting
  - 166 - removal of dead and dying trees
  - 180 Burning
  - 300 Sand and gravel extraction

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- 420 Discharges
- 490 Other urbanisation, industrial and similar activities
- 620 Outdoor sports and leisure activities
- 700 Pollution
- 720 Trampling, overuse
- 740 Vandalism

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

- 2.5.1 Habitats for the species: Bosques espesos, cavidades naturales, minas y túneles:
- 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: Unknown (X)
- 2.5.6 Trend period:
- 2.5.7 Reasons for reported trend:
- Other (specify):

## 2.6 Future prospects for the species: Unknown

## 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:	Unknown (XX)	
Conclusions: (2.4) Population:	Unknown (XX)	
Conclusions: (2.5) Habitat for the species:	Unknown (XX)	
Conclusions: (2.6) Future prospects:	Unknown (XX)	
Conclusions: Overall assessment:	Unknown (XX)	

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

## 2.2 Published sources and/or websites:

Palomo, L.J. y Gisbert, J. 2002. Atlas de los Mamíferos terrestres de España. Dirección General de Conservación de la Naturaleza-SECEM-SECEMU, Madrid, 564 pp.

Fernández Gutiérrez, J. 2002. Los murciélagos en Castilla y León. Atlas de distribución y tamaño de las poblaciones. Junta de Castilla y León. Consejería de Medio Ambiente. Náyade Producciones, S.L. Valladolid.

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

Alcalde, J. T. and M. C. Escala (1999). "Distribución de los quirópteros en Navarra, España." Bol. R. Soc. Esp. Host. Nat. (Sec. Biol.) 95 (1-2): 157-171.

Benzal, J. & O. De Paz (eds.). 1991. Los murciélagos de España y Portugal. Colección Técnica. ICONA. Madrid.

AGIRRE-MENDI, P.T., 2003. Protección de refugios de quirópteros (Mammalia: Chiroptera) en la Comunidad Autónoma de La Rioja: Resultados de las campañas de 1998, 1999, 2000 y 2001. Revista Zubía 21: 63-70.

AGIRRE-MENDI, P.T., ZALDÍVAR, C., 1991. Contribución al Atlas Mastozoológico de la Comunidad Autónoma de La Rioja I. Revista Zubía 9: 65-88.

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ICARUS (1995) Catálogo Regional de Especies de Vertebrados amenazados de La Rioja. Gobierno de La Rioja (estudio inédito)

AGIRRE-MENDI, P.T., 2001. Eficacia de una orden administrativa para la protección de Colonias de murciélagos en La Rioja Barbastella, 2.

De Paz, O. y Benzal, J. 1991. Los refugios importantes y su valoración ecológica para los murciélagos españoles. En: Los murciélagos de España y Portugal. (J. Benzal y O. de Paz eds.), Madrid, 115-140 pág.

Benzal, J. 2002. Bases para el manejo y conservación de los Quirópteros de la Comunidad de Madrid. Comunidad de Madrid- Consejería de Medio ambiente. Madrid, 181 pp.

De Paz, O. y De Lucas, J. 2006. Seguimiento de refugios y valoración del estado de las poblaciones de quirópteros cavernícolas en la Comunidad Autónoma de Madrid (año 2006). Consejería de Medio Ambiente y Ordenación del Territorio- Myotis C.B. Madrid.

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

2.3.1 Surface area of species range in km2:	1796
2.3.2 Date of range determination:	2002-2003
2.3.3 Quality of data concerning range:	Moderate e.g. based on partial data with some extrapolation
2.3.4 Range trend:	Unknown (X)
2.3.5 Range trend magnitude in km2 (optional):	
2.3.6 Range trend period:	
2.3.7 Reasons for reported trend:	
	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
2.4.2 Date of population estimation:			
2.4.3 Methods used for population estimation:			
2.4.4 Quality of data on area:			
2.4.5 Population trend:	Unknown (X)		
2.4.6 Population trend magnitude (km2):			
2.4.7 Population trend period:			
2.4.8 Reasons for reported trend:			
	and/or specify:		
2.4.9 Justification of % thresholds for trends (optional):			
2.4.10 Main pressures:	110 Use of pesticides	166 - removal of dead and dying trees	180 Burning
2.4.11 Threats	110 Use of pesticides	166 - removal of dead and dying trees	180 Burning

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

2.5.1 Habitats for the species:	Especie forestal, de pisos montanos elevados, ligada a importantes masas forestal
2.5.2 Area estimation (km2):	

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2.5.3 Date of estimation:		
2.5.4 Quality of the data:		
2.5.5 Trend of the habitat:	Unknown (X)	
2.5.6 Trend period:		
2.5.7 Reasons for reported trend:		
Other (specify):		
2.6 Future prospects for the species:	Unknown	
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:	Unknown (XX)	
Conclusions: (2.4) Population:	Unknown (XX)	
Conclusions: (2.5) Habitat for the species:	Unknown (XX)	
Conclusions: (2.6) Future prospects:	Unknown (XX)	
Conclusions: Overall assessment:	Unknown (XX)	