

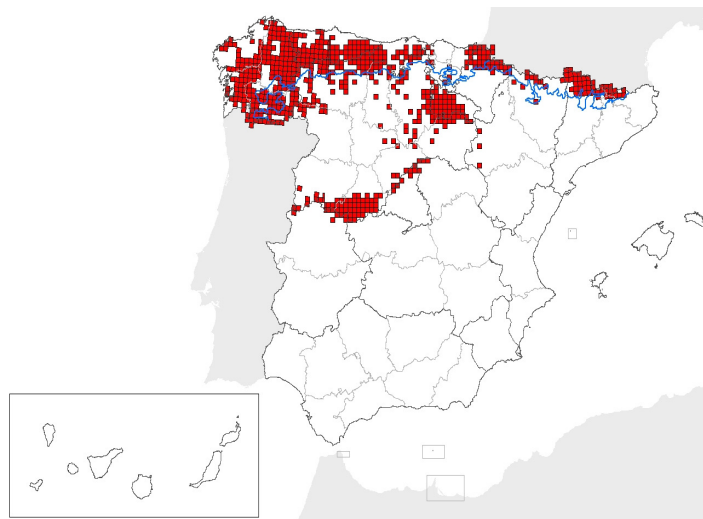
Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

Galemys pyrenaicus

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:

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

Blanco J.C. 1998. Mamíferos de España. Ed Planeta. Barcelona

Aproximacion a la metodologia y estudio del area de distribucion. Estatus de la poblacion y seleccion del habitat del Desman (Galemys pyrenaicus) en la Peninsula Iberica. TRAGSA-ICONA, 1992

GOSÁLBEL, J. et al., 1987. Història Natural dels Països Catalans: Amfibis, Rèptils i Mamífers. Enciclopedia Catalana S.A., Barcelona, 498 pp.

GOSÁLBEL et al., 1997. Catàleg dels Vertebrats de Catalunya: Mamífers. Direcció General del Medi Natural, Generalitat de Catalunya- Universitat de Barcelona, Barcelona, 400 pp.

PALOMO, I. J. y GISBERT, J. 2002. Atlas de los Mamíferos terrestres de España. Dirección General de Conservación de la Naturaleza-SECEM-SECEMU, Madrid, 564 pp.

AYMERICH, P. et al., 2005. L'almesquera (galemys pyrenaicus) a Catalunya. Distribució i caracterització de l'hàbitat. Direcció General del Medi Natural, Generalitat de Catalunya- Universitat de Barcelona, Barcelona, 105 pp.

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

- | | |
|--|---|
| 2.3.1 Surface area of species range in km2: | 2253,22 |
| 2.3.2 Date of range determination: | 1992-2006 |
| 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: | Decreasing (-) |
| 2.3.5 Range trend magnitude in km2 (optional): | |
| 2.3.6 Range trend period: | |
| 2.3.7 Reasons for reported trend: | Direct human influence (restoration, deterioration, destruction)
Improved knowledge/more accurate data |

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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
15	15	Number of localities

2.4.2 Date of population estimation: 2006

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: Poor e.g. based on very incomplete data or on expert judgement

2.4.5 Population trend: Decreasing (-)

2.4.6 Population trend magnitude (km2):

2.4.7 Population trend period: 1992-2006

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:

- 701 - water pollution
- 850 Modification of hydrographic functioning, general
- 852 - modifying structures of inland water courses
- 853 - management of water levels
- 860 Dumping, depositing of dredged deposits
- 870 Dykes, embankments, artificial beaches, general
- 890 Other human induced changes in hydraulic conditions

2.4.11 Threats

- 701 - water pollution
- 850 Modification of hydrographic functioning, general
- 860 Dumping, depositing of dredged deposits
- 890 Other human induced changes in hydraulic conditions

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

2.5.1 Habitats for the species: Ríos, arroyos, y barrancos de aguas permanentes limpias y oxigenadas

2.5.2 Area estimation (km2): 784

2.5.3 Date of estimation: 2005

2.5.4 Quality of the data: Good e.g based on extensive surveys

2.5.5 Trend of the habitat: Decreasing (-)

2.5.6 Trend period:

2.5.7 Reasons for reported trend: DirectHuman

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)

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Conclusions: (2.4) Population:	Inadequate (U1)
Conclusions: (2.5) Habitat for the species:	Inadequate (U1)
Conclusions: (2.6) Future prospects:	Bad (U2)
Conclusions: Overall assessment:	Bad (U2)

2.1 Biogeographical region or marine region: ATLANTIC

2.2 Published sources and/or websites:

Palomo, L.J. & Gisbert, J. (2002). Atlas de los Mamíferos Terrestres de España. DGCN-SECEM-SECEMU. Madrid, 564.

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

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.

Fernández Salvador, R., Gisbert, J., García-Perea, R. (1998) Evidences of Galemys Pyrenaicus decline in the southern border of its range. EuroAmerican Mammal congress, Santiago de Compostela (1998).

Nores, C., Ojeda, F., Ruano, A., Villate, I., González, J., Cano, J.M., González, E. (1998). Estimating Galemys pyrenaicus population density in tour Spanish rivers J.Zool. Lond.,246:454-457.

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.

GONZÁLEZ-ESTEBAN, J. y VILLATE, I. 2001. Actualización de la distribución y estado poblacional del desmán ibérico Galemys pyrenaicus en la Comunidad Autónoma del País Vasco.

Gisbert, J., Fernández-Salvador, R. y García-Perea, R. 2000. Estudio sobre la presencia del desmán ibérico, Galemys pyrenaicus, en la cara norte de la Sierra de Gredos (Alto Tormes). Informe final. Museo Nacional de Ciencias Naturales. Madrid.

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:	31843,25
2.3.2 Date of range determination:	1970-2006
2.3.3 Quality of data concerning range:	Good e.g based on extensive surveys
2.3.4 Range trend:	Stable (=)
2.3.5 Range trend magnitude in km2 (optional):	
2.3.6 Range trend period:	1195-2007
2.3.7 Reasons for reported trend:	Unknown
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
	321	410	Number of localities
2.4.2 Date of population estimation:	1995-2007		
2.4.3 Methods used for population estimation:	Based on expert opinion		
2.4.4 Quality of data on area:	Good e.g based on extensive surveys		
2.4.5 Population trend:	Stable (=)		
2.4.6 Population trend magnitude (km2):			

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2.4.7 Population trend period:	1995-2007
2.4.8 Reasons for reported trend:	Unknown
and/or specify:	
2.4.9 Justification of % thresholds for trends (optional):	
2.4.10 Main pressures:	621 - nautical sports 701 - water pollution 830 Canalisation 850 Modification of hydrographic functioning, general 852 - modifying structures of inland water courses 853 - management of water levels 870 Dykes, embankments, artificial beaches, general 890 Other human induced changes in hydraulic conditions
2.4.11 Threats	621 - nautical sports 701 - water pollution 830 Canalisation 850 Modification of hydrographic functioning, general 852 - modifying structures of inland water courses 853 - management of water levels

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

2.5.1 Habitats for the species:	Ríos de alta y media montaña: Ríos de pisos de planicie a montano con vegetació
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:	Good prospects - species expected to survive and prosper
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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:

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

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

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

PALOMO, L.J. y GISBERT, J. 2002. Atlas de los mamíferos terrestres de España. Dirección General de Conservación de la Naturaleza. Ministerio de Medio Ambiente.

AGIRRE-MENDI, P.T., 2004. Distribución y estado de conservación del desmán ibérico Galemys pyrenaicus (E.Geoffroy Saint-Hilaire, 1811) (Mammalia: Erinaceomorpha) en La Comunidad Autónoma de La Rioja. Zubía 22: 55-85

Blanco, J. C. y González, J. L. (eds.) 1992. Libro Rojo de los Vertebrados de España, ICONA, Colección Técnica, Madrid.

Nores, C. 1993. Desmán ibérico, Galemys pyrenaicus (Geoffroy, 1811). Boletín SECEM, 2: 4-6.

Fernández-Salvador, R.; Gisbert, J. y García Perea, R. 1998. Evidence of Galemys pyrenaicus decline in the southern border of its range. Euro-American Mammal Congress. Santiago de Compostela, España.

García-Perea, R.; Fernández-Salvador, R. y Gisbert, J. 2001. Evaluación de las poblaciones de Desmán ibérico, Galemys pyrenaicus, en la vertiente sur de la Sierra de Guadarrama (Comunidad de Madrid). Informe final. Comunidad de Madrid-MNCN. Informe inédito, 69 pp + Anexos.

Gisbert, J., Fernández-Salvador, R. y García-Perea, R. 2000. Estudio sobre la presencia del desmán ibérico, Galemys pyrenaicus, en la cara norte de la Sierra de Gredos (Alto Tormes). Informe final. Museo Nacional de Ciencias Naturales. Madrid.

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).

López, M., Díaz, M., Carbonell, R., Bonal, R. 2006. Libro Rojo de los vertebrados de Castilla- La Mancha.

Gisbert, J. y Fernández, R. 1998. Distribución y estatus de conservación del Desmán Ibérico (Galemys pyrenaicus) en Castilla - La Mancha. CSIF-Junta de Comunidades de Castilla-La Mancha, Toledo.

Estudio sobre la distribución de la Almizclera (Galemys pyrenaicus) en Extremadura. Informe inédito DGMA, Junta de Extremadura. 2004

Estudio cuantitativo sobre la población de Desmán ibérico en el Valle del Ambroz y Topillo de Cabrera en el norte de Extremadura. Informe inédito DGMA, Junta de Extremadura. 2004

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

2.3.1 Surface area of species range in km2:	24359,38
2.3.2 Date of range determination:	2002-2007
2.3.3 Quality of data concerning range:	Moderate e.g. based on partial data with some extrapolation
2.3.4 Range trend:	Decreasing (-)
2.3.5 Range trend magnitude in km2 (optional):	
2.3.6 Range trend period:	
2.3.7 Reasons for reported trend:	Direct human influence (restoration, deterioration, destruction) 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
	245	313	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		

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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) Indirect anthro(zoo)genic influence
and/or specify:	
2.4.9 Justification of % thresholds for trends (optional):	
2.4.10 Main pressures:	151 - removal of hedges and copses 167 - forest exploitation without replanting 241 - collection (insects, reptiles, amphibians.....) 690 Other leisure and tourism impacts not referred to above 701 - water pollution 811 - management of aquatic and bank vegetation for drainage purposes 820 Removal of sediments (mud...) 852 - modifying structures of inland water courses 853 - management of water levels 890 Other human induced changes in hydraulic conditions 965 - predation 966 - antagonism arising from introduction of species
2.4.11 Threats	151 - removal of hedges and copses 167 - forest exploitation without replanting 241 - collection (insects, reptiles, amphibians.....) 690 Other leisure and tourism impacts not referred to above 701 - water pollution 811 - management of aquatic and bank vegetation for drainage purposes 820 Removal of sediments (mud...) 852 - modifying structures of inland water courses 853 - management of water levels 890 Other human induced changes in hydraulic conditions 965 - predation 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:	Se detecta en arroyos y ríos de corriente constante y fuerte pendiente, de aguas
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:	Bad prospects - species likely to be become extinct in the biogeographical region
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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):	El desmán ibérico ha desaparecido prácticamente del Sistema Central, según se d

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Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Bad (U2)	
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)	