

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

0.1 Member State	IT
0.2.1 Species code	1316
0.2.2 Species name	<i>Myotis capaccinii</i>
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	N/A

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.1a Sensitive species	No
1.1.2 Method used - map	Estimate based on partial data with some extrapolation and/or modelling (2)
1.1.3 Year or period	1985-2012
1.1.4 Additional map	No
1.1.5 Range map	Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published sources

Mediterranean (MED)

The present species assessment (fields 0.1-2.9) has been compiled by Daniele Paoloni, Cristiano Spilinga (Associazione Teriologica Italiana - ATIt) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (Institute for Environmental Protection and Research - ISPRA). Information, unpublished data and experts' judgments have been provided by Paolo Agnelli, Mara Calvinì, Luca Cistrone, Michele Ferretto, Mauro Mucedda, Danilo Russo, Dino Scaravelli, Martina Spada, Roberto Toffoli, Simone Vergari (Italian Group for bat Research).

Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): IT5210078; IT5210057; IT5210060; IT5210064; IT5210047; IT5210050; IT5210016; IT5210033; IT5210077; IT5210021; IT5210053; IT5210055; IT5210025; IT5210039.

Distribution data for the following grid cells have been inserted by the Ministry of Environment: 10kmE418N185; 10kmE427N191.

Distribution data for the following grid cells have been removed by the Ministry of Environment: 10kmE475N203; 10kmE474N204; 10kmE473N205; 10kmE452N215; 10kmE418N186; 10kmE423N191.

Archivio Osservatorio Regionale per Biodiversità. Regione Umbria.

Bux M., Russo D. e Scillitani G. 2003. La chiroterofauna della Puglia. Hystrix, It. J. Mamm. (n. s.) supp.: 150.

Calvinì M., 2010. Monitoraggio delle colonie di chiroteri riproduttive e svernanti di particolare interesse conservazionistico note in Liguria (rapporto interno).

Capizzi et al. (2012) Progetto atlante dei Mammiferi del Lazio - Regione Lazio – ARP.

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Database del Repertorio Naturalistico Toscano.

Mucedda M., Murittu G., Oppes A., Pidinchedda E., 1995. Osservazioni sui Chiroteri troglodili della Sardegna. Boll. Soc. Sarda Sci. Nat., 30: 97-129.

Mucedda M., Bertelli M. L., Pidinchedda E., 2001. Note su Myotis capaccinii (Chiroptera, Vespertilionidae) della Sardegna. Boll. Gruppo Spel. Sassarese, 18: 35-38.

Regione Autonoma della Sardegna - Assessorato Difesa Ambiente , 2012 - "Servizio di monitoraggio dello stato di conservazione degli habitat e delle specie di importanza comunitaria presenti nei siti della Rete Natura 2000 in Sardegna – Linea 4. Redazione del Rapporto sullo stato di conservazione di habitat e specie.

Regione Autonoma della Sardegna - Assessorato Difesa Ambiente - 2008-2009. "Realizzazione del sistema di monitoraggio dello stato di conservazione degli habitat e delle specie di interesse comunitario della Regione Autonoma della Sardegna".

Regione Liguria, 2008, Carta della Biodiversità, www.ambienteinliguria.it

Ruffo S., Stoch F., 2005. Checklist e distribuzione della fauna italiana. Memorie del Museo Civico di storia naturale di Verona, 2.serie, Sezione scienze della Vita 16.

Spilinga C., Russo D., Carletti S., Jiménez Grijalva M.P., Sergiacomi U., Ragni B., (in stampa). Chiroteri dell'Umbria. Distribuzione geografica ed ecologica. Regione Umbria. Università degli Studi di Perugia.

2.3 Range

2.3.1 Surface area - Range (km ²)	73900		
2.3.2 Method - Range surface area	Estimate based on partial data with some extrapolation and/or modelling (2)		
2.3.3 Short-term trend period	2001-2012		
2.3.4 Short-term trend direction	decrease (-)		
2.3.5 Short-term trend magnitude	min	max	
2.3.6 Long-term trend period	N/A		
2.3.7 Long-term trend direction	N/A		
2.3.8 Long-term trend magnitude	min	max	
2.3.9 Favourable reference range	area (km ²)		
	operator	more than (>)	
	unkown	No	
	method	Expert judgement	
2.3.10 Reason for change	Improved knowledge/more accurate dataUse of different method		

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit	N/A		
	min	max		
2.4.2 Population size (other than individuals)	Unit	number of map 10x10 km grid cells (grids10x10)		
	min	129	max	129
2.4.3 Additional information	Definition of locality			

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	Conversion method		
	Problems	Impossible to convert grids to individuals	
2.4.4 Year or period	1985-2012		
2.4.5 Method – population size	Estimate based on expert opinion with no or minimal sampling (1)		
2.4.6 Short-term trend period	2001-2012		
2.4.7 Short term trend direction	decrease (-)		
2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	Estimate based on expert opinion with no or minimal sampling (1)		
2.4.10 Long-term trend period			
2.4.11 Long term trend direction	N/A		
2.4.12 Long-term trend magnitude	min	max	confidence interval
2.4.13 Long-term trend method	N/A		
2.4.14 Favourable reference population	number		
	operator	much more than (>>)	
	unknown	No	
	method	Expert judgement	
2.4.15 Reason for change	Improved knowledge/more accurate data Use of different method		

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km ²)	Absent data (0)
2.5.2 Year or period	
2.5.3 Method used - habitat	
2.5.4 a) Quality of habitat	
2.5.4 b) Quality of habitat - method	Expert based
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	decrease (-)
2.5.7 Long-term trend period	N/A
2.5.8 Long term trend direction	
2.5.9 Area of suitable habitat (km ²)	
2.5.10 Reason for change	Genuine Improved knowledge/more accurate data

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
closures of caves or galleries (G05.08)	high importance (H)	N/A
recreational cave visits (G01.04.03)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
management of aquatic and bank vegetation for drainage purposes (J02.10)	high importance (H)	N/A
surface water abstractions by hydro-energy (J02.06.06)	medium importance (M)	N/A
2.6.1 Method used – pressures	based only on expert judgements (1)	

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
closures of caves or galleries (G05.08)	high importance (H)	N/A
recreational cave visits (G01.04.03)	high importance (H)	N/A

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Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
management of aquatic and bank vegetation for drainage purposes (J02.10)	high importance (H)	N/A
surface water abstractions by hydro-energy (J02.06.06)	medium importance (M)	N/A

2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

2.8.3 Trans-boundary assessment

2.9 Conclusions (assessment of conservation status at end of reporting period)

2.9.1 Range assessment Inadequate (U1)
qualifiers N/A

2.9.2. Population assessment Bad (U2)
qualifiers N/A

2.9.3. Habitat assessment Bad (U2)
qualifiers N/A

2.9.4. Future prospects assessment Bad (U2)
qualifiers N/A

2.9.5 Overall assessment of Conservation Status Bad (U2)

2.9.5 Overall trend in Conservation Status declining (-)

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size Unit N/A
min max

3.1.2 Method used Absent data (0)

3.1.3 Trend of population size within N/A

3.2 Conversation Measures

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Adapt forest management (3.2)	Administrative	medium importance (M)	Inside	Maintain Long term
Establish protected areas/sites (6.1)	Legal	medium importance (M)	Inside	Unknown
Legal protection of habitats and species (6.3)	Legal	medium importance (M)	Both	Unknown

2. Biogeographical Or Marine Level

2.1 Biogeographical Region Continental (CON)

2.2 Published sources The present species assessment (fields 0.1-2.9) has been compiled by Daniele

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Paoloni, Cristiano Spilinga (Associazione Teriologica Italiana - ATIt) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (Institute for Environmental Protection and Research - ISPRA). Information, unpublished data and experts' judgments have been provided by Paolo Agnelli, Mara Calvini, Luca Cistrone, Michele Ferretto, Danilo Russo, Dino Scaravelli, Martina Spada, Roberto Toffoli, Simone Vergari (Italian Group for bat Research).

Distribution data for the following grid cells have been removed by the Ministry of Environment: 10kmE425N245.

Archivio Osservatorio Regionale per Biodiversità. Regione Umbria.

Banca Dati Regionale Emilia Romagna (aggiornamento al 2010).

Calvini M., 2010. Monitoraggio delle colonie di chiroteri riproduttive e svernanti di particolare interesse conservazionistico note in Liguria (rapporto interno).

Dall'Asta A., 1995-1996. Atlante preliminare dei Chiroteri (Chiroptera, Mammalia) della Regione Friuli-Venezia Giulia - Prima Sintesi Cartografica. Tesi di Laurea in Scienze Naturali, Fac. Di Scienze MM. FF. NN. Dell'Università degli Studi di Trieste, Relatori G. A. Amirante & S. Dolce: 1-103.

Database del Repertorio Naturalistico Toscano.

Insubria DataBat, 2012. Data base chiroteri dell'Università degli Studi dell'Insubria aggiornato al 2012.

Kryštufek B., Rešek Donev N., 2005. The Atlas of Slovenian Bats (Chiroptera). Scopolia, 55 (2005): 1-92.

Lapini L., Dall'Asta A., Dublo L., Spoto M., Venier E., 1996 (1995). Materiali per una teriofauna dell'Italia Nord - Orientale (Mammalia, Friuli-Venezia Giulia). Gortania 17: 149-248.

Ruffo S., Stoch F., 2005. Checklist e distribuzione della fauna italiana. Memorie del Museo Civico di storia naturale di Verona, 2.serie, Sezione scienze della Vita 16.

Spada M., Preatoni G., Tosi G., Martinoli A., 2010. Piano di monitoraggio dei Vertebrati terrestri di interesse comunitario (Direttive 79/409/CEE e 92/43/CEE) in Lombardia. Il monitoraggio dei Chiroteri. Fondazione Lombardia per l'Ambiente, Università degli Studi dell'Insubria.

Spilinga C., Russo D., Carletti S., Jiménez Grijalva M.P., Sergiacomi U., Ragni B., (in stampa). Chiroteri dell'Umbria. Distribuzione geografica ed ecologica. Regione Umbria. Università degli Studi di Perugia.

Vigorita V., Cucè L., 2008. La fauna selvatica in Lombardia. Rapporto 2008 su distribuzione, abbondanza e stato di conservazione di uccelli e mammiferi. Regione Lombardia. Pp. 364.

2.3 Range

2.3.1 Surface area - Range (km²)

9500

2.3.2 Method - Range surface area

Estimate based on partial data with some extrapolation and/or modelling (2)

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2.3.3 Short-term trend period	2001-2012		
2.3.4 Short-term trend direction	decrease (-)		
2.3.5 Short-term trend magnitude	min	max	
2.3.6 Long-term trend period			
2.3.7 Long-term trend direction	N/A		
2.3.8 Long-term trend magnitude	min	max	
2.3.9 Favourable reference range	area (km ²)		
	operator	more than (>)	
	unknown	No	
	method	Expert judgement	
2.3.10 Reason for change	Improved knowledge/more accurate dataUse of different method		

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit	N/A		
	min		max	
2.4.2 Population size (other than individuals)	Unit	number of map 10x10 km grid cells (grids10x10)		
	min	17	max	17
2.4.3 Additional information	Definition of locality Conversion method Problems Impossible to convert grids into individuals			
2.4.4 Year or period	1985-2012			
2.4.5 Method – population size	Estimate based on expert opinion with no or minimal sampling (1)			
2.4.6 Short-term trend period	2001-2012			
2.4.7 Short term trend direction	decrease (-)			
2.4.8 Short-term trend magnitude	min	max	confidence interval	
2.4.9 Short-term trend method	Estimate based on expert opinion with no or minimal sampling (1)			
2.4.10 Long-term trend period				
2.4.11 Long term trend direction	N/A			
2.4.12 Long-term trend magnitude	min	max	confidence interval	
2.4.13 Long-term trend method	N/A			
2.4.14 Favourable reference population	number			
	operator	much more than (>>)		
	unknown	No		
	method	Expert judgement		
2.4.15 Reason for change	Improved knowledge/more accurate data Use of different method			

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km ²)	
2.5.2 Year or period	
2.5.3 Method used - habitat	Absent data (0)
2.5.4 a) Quality of habitat	Bad
2.5.4 b) Quality of habitat - method	Expert based
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	decrease (-)
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km ²)	

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2.5.10 Reason for change

Genuine Improved knowledge/more accurate data

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
closures of caves or galleries (G05.08)	high importance (H)	N/A
recreational cave visits (G01.04.03)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
management of aquatic and bank vegetation for drainage purposes (J02.10)	high importance (H)	N/A
surface water abstractions by hydro-energy (J02.06.06)	medium importance (M)	N/A

2.6.1 Method used – pressures

based only on expert judgements (1)

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
closures of caves or galleries (G05.08)	high importance (H)	N/A
recreational cave visits (G01.04.03)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
management of aquatic and bank vegetation for drainage purposes (J02.10)	high importance (H)	N/A
surface water abstractions by hydro-energy (J02.06.06)	medium importance (M)	N/A

2.7.1 Method used – threats

expert opinion (1)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

2.8.3 Trans-boundary assessment

2.9 Conclusions (assessment of conservation status at end of reporting period)

2.9.1 Range assessment Inadequate (U1)

qualifiers N/A

2.9.2. Population assessment Bad (U2)

qualifiers N/A

2.9.3. Habitat assessment Bad (U2)

qualifiers N/A

2.9.4. Future prospects assessment Bad (U2)

qualifiers N/A

2.9.5 Overall assessment of Conservation Status Bad (U2)

2.9.5 Overall trend in Conservation Status declining (-)

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

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3.1.1 Population Size	Unit	N/A
	min	max
3.1.2 Method used	Absent data (0)	
3.1.3 Trend of population size within	N/A	

3.2 Conversation Measures

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Other agriculture-related measures (2.0)	Administrative	medium importance (M)	Inside	No effect
Other forestry-related measures (3.0)	Administrative	medium importance (M)	Inside	No effect
Adapt forest management (3.2)	Administrative	medium importance (M)	Inside	Maintain Long term

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published sources

Alpine (ALP)

The present species assessment (fields 0.1-2.9) has been compiled by Daniele Paoloni, Cristiano Spilinga (Associazione Teriologica Italiana - ATIt) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (Institute for Environmental Protection and Research - ISPRA). Information, unpublished data and experts' judgments have been provided by Paolo Agnelli, Mara Calvinì, Luca Cistrone, Michele Ferretto, Danilo Russo, Dino Scaravelli, Martina Spada, Roberto Toffoli, Simone Vergari (Italian Group for bat Research).

Calvinì M., 2010. Monitoraggio delle colonie di chiroterri riproduttive e svernanti di particolare interesse conservazionistico note in Liguria (rapporto interno).

Dall'Asta A., 1995-1996. Atlante preliminare dei Chiroterri (Chiroptera, Mammalia) della Regione Friuli-Venezia Giulia - Prima Sintesi Cartografica. Tesi di Laurea in Scienze Naturali, Fac. di Scienze MM. FF. NN. dell'Università degli Studi di Trieste, Relatori G. A. Amirante & S. Dolce: 1-103.

Debernardi P., Patriarca E., 2007. The Bats of the Lake Maggiore Piedmont shore (NW Italy). *Hystrix It. J. Mamm.* (n.s.) 18 (1): 39-55.

Debernardi P., Garzoli L., Patriarca E., 2012. Demographics, phenology and conservation of the only colony of *Myotis capaccinii* known for Liguria, Piedmont and Aosta Valley (NW Italy). In: Prigioni C., Balestrieri A., Preatoni D.G., Masseroni E. (Eds.). VIII Congr. It. Teriologia, *Hystrix, It. J. Mamm.*, (N.S.) SUPP. 2012: 110.

Insubria DataBat, 2012. Data base chiroterri dell'Università degli Studi dell'Insubria aggiornato al 2012.

Lapini L., Dall'Asta A., Dublo L., Spoto M., Venier E., 1996 (1995). Materiali per una teriofauna dell'Italia Nord - Orientale (Mammalia, Friuli-Venezia Giulia). *Gortania* 17: 149-248.

Patriarca E., Debernardi P., 2011. Approfondimento delle conoscenze chiroterrologiche riguardanti il territorio di riferimento delle aree protette del

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Lago Maggiore. Periodo 30/04/2009 – 30/04/2011. Interreg Italia –Svizzera 2007-2013. Rapporto interno per conto Ente dei Parchi e delle Riserve naturali del Lago Maggiore. Pp. 48.

Provincia di Trento. Rilevamenti e monitoraggi popolazioni chiroterri della provincia di Trento nel periodo 1999-2012

Ruffo S., Stoch F., 2005. Checklist e distribuzione della fauna italiana. Memorie del Museo Civico di storia naturale di Verona, 2.serie, Sezione scienze della Vita 16.

Spada M., Preatoni G., Tosi G., Martinoli A., 2010. Piano di monitoraggio dei Vertebrati terrestri di interesse comunitario (Direttive 79/409/CEE e 92/43/CEE) in Lombardia. Il monitoraggio dei Chiroterri. Fondazione Lombardia per l'Ambiente, Università degli Studi dell'Insubria.

Vigorita V., Cucè L., 2008. La fauna selvatica in Lombardia. Rapporto 2008 su distribuzione, abbondanza e stato di conservazione di uccelli e mammiferi. Regione Lombardia. Pp. 364.

2.3 Range

2.3.1 Surface area - Range (km ²)	5800
2.3.2 Method - Range surface area	Estimate based on partial data with some extrapolation and/or modelling (2)
2.3.3 Short-term trend period	2001-2012
2.3.4 Short-term trend direction	decrease (-)
2.3.5 Short-term trend magnitude	min max
2.3.6 Long-term trend period	
2.3.7 Long-term trend direction	N/A
2.3.8 Long-term trend magnitude	min max
2.3.9 Favourable reference range	area (km ²) operator more than (>) unkown No method Expert judgement
2.3.10 Reason for change	Improved knowledge/more accurate dataUse of different method

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit N/A min max
2.4.2 Population size (other than individuals)	Unit number of map 10x10 km grid cells (grids10x10) min 12 max 12
2.4.3 Additional information	Definition of locality Conversion method Problems Impossible to convert grids to individuals
2.4.4 Year or period	1990-2012
2.4.5 Method – population size	Estimate based on expert opinion with no or minimal sampling (1)
2.4.6 Short-term trend period	2001-2012
2.4.7 Short term trend direction	decrease (-)

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2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	Estimate based on expert opinion with no or minimal sampling (1)		
2.4.10 Long-term trend period			
2.4.11 Long term trend direction	N/A		
2.4.12 Long-term trend magnitude	min	max	confidence interval
2.4.13 Long-term trend method	N/A		
2.4.14 Favourable reference population	number		
	operator	much more than (>>)	
	unknown	No	
	method	Expert judgement	
2.4.15 Reason for change	Improved knowledge/more accurate data Use of different method		

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km ²)	Absent data (0)
2.5.2 Year or period	
2.5.3 Method used - habitat	
2.5.4 a) Quality of habitat	
2.5.4 b) Quality of habitat - method	Expert based
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	decrease (-)
2.5.7 Long-term trend period	N/A
2.5.8 Long term trend direction	
2.5.9 Area of suitable habitat (km ²)	Genuine Improved knowledge/more accurate data
2.5.10 Reason for change	

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
closures of caves or galleries (G05.08)	high importance (H)	N/A
recreational cave visits (G01.04.03)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
management of aquatic and bank vegetation for drainage purposes (J02.10)	high importance (H)	N/A
surface water abstractions by hydro-energy (J02.06.06)	medium importance (M)	N/A

2.6.1 Method used – pressures	based only on expert judgements (1)
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2.7 Main Threats

Threat	ranking	pollution qualifier(s)
closures of caves or galleries (G05.08)	high importance (H)	N/A
recreational cave visits (G01.04.03)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
management of aquatic and bank vegetation for drainage purposes (J02.10)	high importance (H)	N/A
surface water abstractions by hydro-energy (J02.06.06)	medium importance (M)	N/A
demolishment of buildings & human structures (E06.01)	low importance (L)	N/A
reconstruction, renovation of buildings (E06.02)	low importance (L)	N/A

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2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

2.8.3 Trans-boundary assessment

2.9 Conclusions (assessment of conservation status at end of reporting period)

2.9.1 Range assessment Inadequate (U1)

qualifiers N/A

2.9.2. Population assessment Bad (U2)

qualifiers N/A

2.9.3. Habitat assessment Bad (U2)

qualifiers N/A

2.9.4. Future prospects assessment Bad (U2)

qualifiers N/A

2.9.5 Overall assessment of Conservation Status Bad (U2)

2.9.5 Overall trend in Conservation Status declining (-)

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size Unit N/A
min max

3.1.2 Method used Absent data (0)

3.1.3 Trend of population size within N/A

3.2 Conversation Measures

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Other agriculture-related measures (2.0)	Contractual	medium importance (M)	Inside	No effect
Other forestry-related measures (3.0)	Contractual	medium importance (M)	Inside	No effect
Legal protection of habitats and species (6.3)	Legal	high importance (H)	Both	Not evaluated
Specific single species or species group management measures (7.4)	One-off	high importance (H)	Outside	Not evaluated