

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	1373
0.2.2 Species name	Ovis gmelini musimon
0.2.3 Alternative species scientific name	Ovis aries musimon
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	Complete survey/Complete survey or a statistically robust estimate (3)
1.1.3 Year or period	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 Information, unpublished data and experts' judgments have been provided by Marco Apollonio, Roberta Chirichella, Stefano Grignolio, Sandro Lovari, Luca Pedrotti (ATIt) and Francesco Riga (ISPRA). Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): ITB020015, ITB011109, ITB041111

Boitani L., Lovari S., Vigna Taglianti A., 2003. Carnivora – Artiodactyla. Fauna d'Italia, vol. XXXVIII, Mammalia III. Ed. Calderini de Il Sole 24 ore Edagricole, Bologna.

Carnevali L., Pedrotti L., Riga F., Toso S., 2009. Banca Dati Ungulati: Status, distribuzione, consistenza, gestione e prelievo venatorio delle popolazioni di Ungulati in Italia. Rapporto 2001-2005. Biol. Cons. Fauna, 117:1-168 [Italian-English text]

Ente Foreste della Sardegna, 2012. Foreste demaniali di Monte Olia – Bolostiu. 1° censimento da punti di vantaggio del muflone (*Ovis orientalis musimon*) e osservazioni sulla popolazione dei cervi (*Cervus elaphus corsicanus*). Servizio Territoriale di Tempio Pausania, Ente Foreste della Sardegna.

Ente Foreste della Sardegna, 2012. U.G.B di Pedrabianca –U.G.B. di Monte Nieddu. 1° censimento da punti di vantaggio del muflone (*Ovis orientalis musimon*). Servizio Territoriale di Tempio Pausania, Ente Foreste della Sardegna.

Gentry A., Clutton-Brock J., C.P.Groves, 1996. Case 3010: Proposed conservation of usage of 15 mammal specific names based on wild species which are antedated by or contemporary with those based on domestic animals. Bull. Zool. Nomenclature 53: 28-37.

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Murgia C., 1987. Indagine conoscitiva sullo status del muflone in Sardegna. Uff. Reg. Fauna. Monografia pag. 47.

Opinion 2027 (Case 3010), 2003. Usage of 17 specific names based on wild species which are pre-dated by or contemporary with those based on domestic animals: conserved. Bull. Zool. Nomenclature 60: 81-84.

Pipia A., Ciuti S., Ghiandai F., Luccarini S., 2006. Progetto di ricerca sull'ecologia del Muflone in ambiente mediterraneo con particolare riferimento alla struttura e dinamica di popolazione. Università di Sassari, Dip. Zoologia e Genetica Evoluzionistica, monografia. Pag. 44

RAS - Assessorato della Difesa dell'Ambiente, 2005. Carta delle Vocazioni Faunistiche della Sardegna. A cura di: Apollonio M., Luccarini S., Giustini D., Scandura M., Ghiandai F., Università di Sassari.

RAS - Assessorato della Difesa dell'Ambiente, 2012. Aggiornamento della Carta delle Vocazioni Faunistiche della Sardegna – Sezione Ungulati. A cura di: Apollonio M., Luccarini S., Cossu A, Chirichella R. Università degli Studi di Sassari. Dipartimento di Scienze della Natura e del Territorio. Pp. 175.

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 degli habitat e delle specie".

2.3 Range

2.3.1 Surface area - Range (km ²)	3000
2.3.2 Method - Range surface area	Complete survey/Complete survey or a statistically robust estimate (3)
2.3.3 Short-term trend period	2001-2012
2.3.4 Short-term trend direction	increase (+)
2.3.5 Short-term trend magnitude	min 11 max 11
2.3.6 Long-term trend period	1989-2012
2.3.7 Long-term trend direction	increase (+)
2.3.8 Long-term trend magnitude	min max
2.3.9 Favourable reference range	area (km ²) operator approximately equal to (≈) unknown No method Expert judgement
2.3.10 Reason for change	Use of different method

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit number of individuals (i) min 7000 max 7500
2.4.2 Population size (other than individuals)	Unit N/A min max
2.4.3 Additional information	Definition of locality Conversion method

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	Problems
2.4.4 Year or period	2012
2.4.5 Method – population size	Complete survey/Complete survey or a statistically robust estimate (3)
2.4.6 Short-term trend period	2001-2012
2.4.7 Short term trend direction	increase (+)
2.4.8 Short-term trend magnitude	min 20 max 25 confidence interval
2.4.9 Short-term trend method	Complete survey/Complete survey or a statistically robust estimate (3)
2.4.10 Long-term trend period	1989-2012
2.4.11 Long term trend direction	increase (+)
2.4.12 Long-term trend magnitude	min 100 max 100 confidence interval
2.4.13 Long-term trend method	Estimate based on partial data with some extrapolation and/or modelling (2)
2.4.14 Favourable reference population	number operator approximately equal to (≈) unknown No method Expert judgement
2.4.15 Reason for change	Genuine 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	Good
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	increase (+)
2.5.7 Long-term trend period	1989-2012
2.5.8 Long term trend direction	increase (+)
2.5.9 Area of suitable habitat (km ²)	3371
2.5.10 Reason for change	Improved knowledge/more accurate data Use of different method

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
antagonism with domestic animals (K03.06)	high importance (H)	N/A
introduction of disease (microbial pathogens) (K03.03)	high importance (H)	N/A
trapping, poisoning, poaching (F03.02.03)	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)
introduction of disease (microbial pathogens) (K03.03)	medium importance (M)	N/A
antagonism with domestic animals (K03.06)	medium importance (M)	N/A
trapping, poisoning, poaching (F03.02.03)	low importance (L)	N/A
reduction or loss of specific habitat features (J03.01)	high importance (H)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	high importance (H)	N/A
reduction in dispersal (J03.02.02)	high importance (H)	N/A

2.7.1 Method used – threats expert opinion (1)

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2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

The species name should be changed to *Ovis aries musimon*. (Source: Gentry A., Clutton-Brock J., Groves C.P., 1996. Case 3010: Proposed conservation of usage of 15 mammal specific names based on wild species which are antedated by or contemporary with those based on domestic animals. Bull. Zool. Nomenclature 53: 28-37.
Opinion 2027 (Case 3010), 2003. Usage of 17 specific names based on wild species which are pre-dated by or contemporary with those based on domestic animals: conserved. Bull. Zool. Nomenclature 60: 81-84.)

2.8.3 Trans-boundary assessment

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

2.9.1 Range assessment Favourable (FV)
qualifiers N/A

2.9.2. Population assessment Favourable (FV)
qualifiers N/A

2.9.3. Habitat assessment Favourable (FV)
qualifiers N/A

2.9.4. Future prospects assessment Favourable (FV)
qualifiers N/A

2.9.5 Overall assessment of Conservation Status Favourable (FV)

2.9.5 Overall trend in Conservation Status N/A

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
Regulation/ Management of hunting and taking (7.1)	Administrative	medium importance (M)	Inside	Maintain
Legal protection of habitats and species (6.3)	Legal	high importance (H)	Both	Enhance

Species name: *Ovis gmelini musimon* (1373)

Field label	Note	User
0.2.3 Alternative Speciesname	Source: Gentry A., Clutton-Brock J., Groves C.P., 1996. Case 3010: Proposed conservation of usage of 15 mammal specific names based on wild species which are antedated by or contemporary with those based on domestic animals. Bull. Zool. Nomenclature 53: 28-37. Opinion 2027 (Case 3010), 2003. Usage of 17 specific names based on wild species which are pre-dated by or contemporary with those based on domestic animals: conserved. Bull. Zool. Nomenclature 60: 81-84.	ISPRA_ AUNA

Species name: *Ovis gmelini musimon* (1373) Region code: MED

Field label	Note	User
2.5.9 Area of suitable habitat (km2)	Source: RAS - Assessorato della Difesa dell'Ambiente. 2012. Aggiornamento della Carta delle Vocazioni Faunistiche della Sardegna – Sezione Ungulati. A cura di: Apollonio M., Luccarini S., Cossu A, Chirichella R. Università degli Studi di Sassari. Dipartimento di Scienze della Natura e del Territorio. Pp. 175.	ISPRA_ AUNA



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