0.1 Member State	п
0.2.1 Species code	1355
0.2.2 Species name	Lutra lutra
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
1.1.1a Sensitive species
1.1.2 Method used - map
1.1.3 Year or period
1.1.4 Additional map
1.1.5 Range map
Yes
No
Estimate based on partial data with some extrapolation and/or modelling (2)
2001-2012
No
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 Information, unpublished data and experts' judgments have been provided by Marco Apollonio, Luigi Boitani, Paolo Ciucci, Luca Lapini, Anna Loy, Andrea Sforzi (ATIt).

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2.3 Range

2.3.1 Surface area - Range (km²)

2.3.2 Method - Range surface area

2.3.3 Short-term trend period

2.3.4 Short-term trend direction

2.3.5 Short-term trend magnitude

2.3.6 Long-term trend period

2.3.7 Long-term trend direction

2.3.8 Long-term trend magnitude

2.3.9 Favourable reference range

33000

Complete survey/Complete survey or a statistically robust estimate (3)

2001-2012

increase (+)

min max

1989-2012 increase (+)

min max

area (km²)

operator approximately equal to (≈)

unkown

method Expert judgement

number of individuals (i)

max

2.3.10 Reason for change

Improved knowledge/more accurate dataUse of different method

300

2.4 Population

2.4.1 Population size

(individuals or agreed exception)

min 150

Unit N/A

Unit

min max

2.4.3 Additional information

Definition of locality

Conversion method

Problems

2.4.4 Year or period

2.4.2 Population size

(other than individuals)

2.4.5 Method - population size

2.4.6 Short-term trend period

2.4.7 Short term trend direction

2.4.8 Short-term trend magnitude

2.4.9 Short-term trend method

2.4.10 Long-term trend period

2.4.11 Long term trend direction

2006-2012

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

2001-2012

stable (0)

min confidence interval max

Estimate based on expert opinion with no or minimal sampling (1)

N/A

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2.4.12 Long-term trend magnitude confidence interval min max 2.4.13 Long-term trend method N/A number 2.4.14 Favourable reference population approximately equal to (≈) operator unknown 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 (km²) 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

increase (+)

N/A

49849

2.5.6 Short term trend direction

2.5.9 Area of suitable habitat (km²)

trapping, poisoning, poaching (F03.02.03)

brackish) (H01)

Outdoor sports and leisure activities, recreational activities

Pollution to surface waters (limnic & terrestrial, marine &

human induced changes in hydraulic conditions (J02)

2.5.7 Long-term trend period2.5.8 Long term trend direction

2.5.10 Reason for change

2.3.10 Reason for change	improved knowledge	improved knowledge/more accurate data osc of different method			
2.6 Main Pressures					
Pressure		ranking	pollution qualifier(s)		
roads, motorways (D01.02)		high importance (H)	N/A		
trapping, poisoning, poaching (F03.02.03	3)	high importance (H)	N/A		
Outdoor sports and leisure activities, red (G01)	creational activities	medium importance (M)	N/A		
Pollution to surface waters (limnic & ter brackish) (H01)	restrial, marine &	medium importance (M)	N/A		
human induced changes in hydraulic cor	nditions (J02)	high importance (H)	N/A		
reduction in dispersal (J03.02.02)		high importance (H)	N/A		
continuous urbanisation (E01.01)		medium importance (M)	N/A		
reduced fecundity/ genetic depression in (K05.01)	n animals (inbreeding)	low importance (L)	N/A		
Water abstractions from surface waters	(J02.06)	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)		
roads, motorways (D01.02)		high importance (H)	N/A		

Improved knowledge/more accurate data Use of different method

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high importance (H)

high importance (H)

medium importance (M)

medium importance (M)

N/A

N/A

N/A

N/A

reduction in dispersal (J03.02.02)	high importance (H)	N/A
continuous urbanisation (E01.01)	medium importance (M)	N/A
reduced fecundity/ genetic depression in animals (inbreeding) (K05.01)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
inundation (natural processes) (L08)	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 Pressure and threat J03.02.02 represents the difficulty to spread northward due to the Barrea dam (Abruzzo region).

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

Favourable (FV)

2.9.5 Overall assessment of

Conservation Status

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

Establish protected Legal medium Both Long term importance (M)

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

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and Research - ISPRA). Information, unpublished data and experts' judgments have been provided by Marco Apollonio, Luigi Boitani, Paolo Ciucci, Luca Lapini, Anna Loy, Andrea Sforzi (ATIt).

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

Mucci, N., Arrendal, J., Ansorge, H., Bailey, M., Bodner, M., Delibes, M., Ferrando, A., Fournier, P., Fournier, C., Godoy, J., Hajkova, P., Hauer, S., Heggberget, T., Heidecke, D., Kirjavainen, H., Krueger, H., Kvaloy, K., Lafontaine, L., Lanszki, J., Lemarchand, C., Liukko, U., Loeschcke, V., Ludwig, G., Madsen, A., Mercier, L., Ozolins, J., Paunovic, M., Pertoldi, C., Piriz, A., Prigioni, C., Santos-Reis, M., Luis, T., Stjernberg, T., Schmid, H., Suchentrunk, F., Teubner, J., Tornberg, R., Zinke, O. and Randi, E. (2010) Genetic diversity and landscape genetic structure of otter (Lutra lutra) populations in Europe. Conservation Genetics, 11, 583-599.

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Randi E., 2008. The genetics of otter reintroductions with specific reference to Italy. Contributo orale presentato all'Italian Otter Reintroduction Workshop. Parco naturale valle del Ticino-Regione Piemonte.

2.3 Range

2.3.1 Surface area - Range (km²)

2.3.2 Method - Range surface area

2.3.3 Short-term trend period

2.3.4 Short-term trend direction

2.3.5 Short-term trend magnitude

2.3.6 Long-term trend period

2.3.7 Long-term trend direction

2.3.8 Long-term trend magnitude

2.3.9 Favourable reference range

1500

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

2001-2012

increase (+)

min max

N/A

min max

area (km²)

operator more than (>)

unkown No

method Expert judgment

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)

2.4.2 Population size (other than individuals)

2.4.3 Additional information

Unit number of individuals (i)

min 2 max 10

Unit N/A

min max

Definition of locality

Conversion method

2.4.4 Year or period

2.4.5 Method – population size

2.4.6 Short-term trend period

Problems 2001-2012

Estimate based on expert opinion with no or minimal sampling (1)

2001-2012

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2.4.7 Short term trend direction2.4.8 Short-term trend magnitude2.4.9 Short-term trend method2.4.10 Long-term trend period	increase (+) min Estimate ba	max	confidence interval th no or minimal sampling (1)
2.4.11 Long term trend direction 2.4.12 Long-term trend magnitude 2.4.13 Long-term trend method 2.4.14 Favourable reference	N/A min N/A number	max	confidence interval
population	operator unknown	more than (>) No	
2.4.15 Reason for change	method	Expert judgement	4-1-

2.5 Habitat for the Species	
2.5.1 Surface area - Habitat (km²)	
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	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km²)	
2.5.10 Reason for change	Improved knowle

Improved knowledge/more accurate data Use of different method

2.6 Main Pressures			
Pressure		ranking	pollution qualifier(s)
roads, motorways (D01.02)		high importance (H)	N/A
trapping, poisoning, poaching (F03.02.	03)	high importance (H)	N/A
Outdoor sports and leisure activities, re (G01)	ecreational activities	medium importance (M)	N/A
Pollution to surface waters (limnic & te brackish) (H01)	errestrial, marine &	medium importance (M)	N/A
human induced changes in hydraulic co	onditions (J02)	high importance (H)	N/A
reduction in dispersal (J03.02.02)		high importance (H)	N/A
continuous urbanisation (E01.01)		medium importance (M)	N/A
reduced fecundity/ genetic depression (K05.01)	in animals (inbreeding)	low importance (L)	N/A
Water abstractions from surface water	rs (J02.06)	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)
roads, motorways (D01.02)		high importance (H)	N/A
trapping, poisoning, poaching (F03.02.03)		high importance (H)	N/A

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Outdoor sports and leisure activities, recreational activities (G01)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
reduction in dispersal (J03.02.02)	high importance (H)	N/A
continuous urbanisation (E01.01)	medium importance (M)	N/A
reduced fecundity/ genetic depression in animals (inbreeding) (K05.01)	low importance (L)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
inundation (natural processes) (L08)	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

The species can be considered as marginal for Continental biogeographical region and therefore the full reporting was compiled only for the Alpine and Mediterranean ones. In particular the population of Continental region can be assessed as marginal for the Alpine region.

Some individuals in the valley of Ticino river come from illegal releases and therefore they do not appear neither in the Reporting nor in the distribution and range maps.

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 Inadequate (U1)
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

improving (+)

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

3.1 Population

2.9.5 Overall trend in

Conservation Status

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

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3.2 Conversation Measur	res			
3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Other wetland-related measures (4.0)	Contractual	medium importance (M)	Inside	Unknown
Legal protection of habitats and species (6.3)	Legal	high importance (H)	Both	Not evaluated
Regulation/ Management of hunting and taking (7.1)	Administrative	medium importance (M)	Inside	Unknown
Specific management of traffic and energy transport systems (8.2)	Contractual	medium importance (M)	Inside	Unknown

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Notes

Species name: Lutra lutra (13!	obj Region Code. ALP	
Field label	Note	User
2.3.1 Surface area - Range (km²)	The area of the range (2.3.1) has been calculated also summing up the grid cells of species' presence in the adjacent biogeographical region of marginal presence. Only cells entirely overlapped to the marginal area have been summed up, in order to avoid an overestimation of the overall species' range.	ISPRA AUNA
Species name: Lutra lutra (13	55) Region code: MED	
Field label	Note	User
2.5.9 Area of suitable habitat (km2)	The area of suitable habitat (2.5.9) has been calculated by intersecting habitat suitability models for drainage basin (Ottaviani et al., 2009) with Mediterranean biogeographical region. Suitability values were split into 4 classes: 0-50, 51-75, 76-100, 101-150. A value of 0 indicates unsuitability, while the value of 150 indicates optimum suitability. For the reported value were considered only the two classes with higher rank (76-100, 101-150). Source: Ottaviani D., Panzacchi M., Jona lasinio G., Genovesi P., Boitani L., 2009. Modelling semi-acquatic vertebrates' distribution at the drainage basin scale: The case of the otter Lutra lutra in Italy. Ecological Modelling, 220: 111-121.	ISPRA AUNA
2.7 Threats	Pressure and threat J03.02.02 represents the difficulty to spread northward due to the Barrea dam (Abruzzo region).	ISPRA AUNA
2.6 Pressures	Pressure and threat J03.02.02 represents the difficulty to spread northward due to the Barrea dam (Abruzzo region).	ISPRA AUNA

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