

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	1033
0.2.2 Species name	Unio elongatulus
0.2.3 Alternative species scientific name	Unio mancus, Unio pictorum, Unio glaucinus
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	2007-2012
1.1.4 Additional map	No
1.1.5 Range map	Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region	Mediterranean (MED)
2.2 Published sources	The present species assessment (fields 0.1-2.9) has been compiled by Fabio Stoch (on behalf of the Comitato Scientifico per la Fauna d'Italia) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (ISPRA). Information, unpublished data and expert judgements have been provided by Marco Bodon (Genova).

Birindelli S., 2006. Guida alle specie liguri della Rete Natura 2000. Schede per il riconoscimento, la gestione, il monitoraggio. Regione Liguria, pp. 35-46.

2.3 Range

2.3.1 Surface area - Range (km ²)	20900
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	stable (0)
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 approximately equal to (≈) unknown No method Expert opinion
2.3.10 Reason for change	Use 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 120 max 120
2.4.3 Additional information	Definition of locality Conversion method not available

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	Problems	it is impossible to convert grids into individuals
2.4.4 Year or period	2007-2012	
2.4.5 Method – population size	Estimate based on partial data with some extrapolation and/or modelling (2)	
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
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
2.4.13 Long-term trend method	N/A	confidence interval
2.4.14 Favourable reference population	number	
	operator	more than (>)
	unknown	No
	method	Expert opinion
2.4.15 Reason for change	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	Moderate
2.5.4 b) Quality of habitat - method	Expert opinion
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)	
2.5.10 Reason for change	Genuine Use of different method

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
pollution to surface waters by industrial plants (H01.01)	medium importance (M)	N/A
diffuse pollution to surface waters due to agricultural and forestry activities (H01.05)	high importance (H)	N/A
diffuse pollution to surface waters due to household sewage and waste waters (H01.08)	high importance (H)	N/A

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

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
diffuse pollution to surface waters due to agricultural and forestry activities (H01.05)	high importance (H)	N/A
diffuse pollution to surface waters via storm overflows or urban run-off (H01.04)	medium importance (M)	N/A
diffuse pollution to surface waters due to household sewage and waste waters (H01.08)	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 populations formerly attributed in central and southern Italy to *U. elongatulus*, are now attributed to *U. mancus* (following some Authors synonym of *U. pictorum*); the taxonomy is still very confused and in urgent need of clarification.

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 Inadequate (U1)
qualifiers declining (-)

2.9.3. Habitat

assessment Inadequate (U1)
qualifiers stable (=)

2.9.4. Future prospects

assessment Inadequate (U1)
qualifiers declining (-)

2.9.5 Overall assessment of Conservation Status

Inadequate (U1)

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

N/A

3.1.3 Trend of population size within

N/A

3.2 Conversation Measures

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 Fabio Stoch (on behalf of the Comitato Scientifico per la Fauna d'Italia) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (ISPRA). Information, unpublished data and expert judgements have been provided by Marco Bodon (Genova).

Birindelli S., 2006. Guida alle specie liguri della Rete Natura 2000. Schede per il riconoscimento, la gestione, il monitoraggio. Regione Liguria, pp. 35-46.

2.3 Range

2.3.1 Surface area - Range (km²)

35400

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

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2.3.4 Short-term trend direction	stable (0)	
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	approximately equal to (≈)
	unknown	No
	method	Expert opinion
2.3.10 Reason for change	Use 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	190	max	190
2.4.3 Additional information	Definition of locality			
	Conversion method	not available		
	Problems	it is impossible to convert grids into individuals		
2.4.4 Year or period	2007-2012			
2.4.5 Method – population size	Estimate based on partial data with some extrapolation and/or modelling (2)			
2.4.6 Short-term trend period	2001-2012			
2.4.7 Short term trend direction	unknown (x)			
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	more than (>)		
	unknown	No		
	method	Expert opinion		
2.4.15 Reason for change	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	Moderate
2.5.4 b) Quality of habitat - method	Expert opinion
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)	
2.5.10 Reason for change	Genuine Use of different method

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2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
pollution to surface waters by industrial plants (H01.01)	medium importance (M)	N/A
diffuse pollution to surface waters due to agricultural and forestry activities (H01.05)	high importance (H)	N/A
diffuse pollution to surface waters due to household sewage and waste waters (H01.08)	high importance (H)	N/A
Canalisation & water deviation (J02.03)	high importance (H)	N/A
reduction or loss of specific habitat features (J03.01)	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)
pollution to surface waters by industrial plants (H01.01)	medium importance (M)	N/A
diffuse pollution to surface waters due to agricultural and forestry activities (H01.05)	high importance (H)	N/A
diffuse pollution to surface waters due to household sewage and waste waters (H01.08)	high importance (H)	N/A
Canalisation & water deviation (J02.03)	high importance (H)	N/A
reduction or loss of specific habitat features (J03.01)	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 populations formerly attributed in Northern Italy to *U. elongatulus*, are now attributed to *U. mancus* (maybe synonym of *U. pictorum*), *Unio pictorum* (Illyric species present in northeastern Italy) and *U. glaucinus* for Lake Garda; the taxonomy is still very confused and in urgent need of clarification.

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 Inadequate (U1) qualifiers declining (-)
2.9.3. Habitat	assessment Inadequate (U1) qualifiers declining (-)
2.9.4. Future prospects	assessment Inadequate (U1) qualifiers declining (-)
2.9.5 Overall assessment of Conservation Status	Inadequate (U1)
2.9.5 Overall trend in Conservation Status	declining (-)

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

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3.1 Population

3.1.1 Population Size	Unit	N/A	
	min		max
3.1.2 Method used	N/A		
3.1.3 Trend of population size within	N/A		

3.2 Conversation Measures

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 Fabio Stoch (on behalf of the Comitato Scientifico per la Fauna d'Italia) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (ISPRA). Information, unpublished data and expert judgements have been provided by Marco Bodon (Genova).

Ruffo S., Stoch F. (eds.), 2006 - Checklist and distribuito of the Italian fauna. 10,000 terrestri and inland waters species. Memorie del Museo Civico di Storia Naturale di Verona, 2.serie, Sezione Scienze della Vita, 17: 307 pp. + CD-ROM

2.3 Range

2.3.1 Surface area - Range (km ²)	9800		
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	stable (0)		
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	approximately equal to (≈)	
	unkown	No	
	method	Expert opinion	
2.3.10 Reason for change	Use 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	64	max 64
2.4.3 Additional information	Definition of locality		
	Conversion method	not available	
	Problems	it is impossible to convert grids into individuals	
2.4.4 Year or period	2007-2012		
2.4.5 Method – population size	Estimate based on partial data with some extrapolation and/or modelling (2)		
2.4.6 Short-term trend period	2001-2012		
2.4.7 Short term trend direction	stable (0)		

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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	approximately equal to (≈)	
	unknown	No	
	method	Expert opinion	
2.4.15 Reason for change	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	Moderate		
2.5.4 b) Quality of habitat - method	Expert opinion		
2.5.5 Short term trend period	2001-2012		
2.5.6 Short term trend direction	unknown (x)		
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	Genuine Improved knowledge/more accurate data Use of different method		
2.6 Main Pressures			
Pressure	ranking	pollution qualifier(s)	
diffuse pollution to surface waters due to agricultural and forestry activities (H01.05)	medium importance (M)	N/A	
Canalisation & water deviation (J02.03)	medium importance (M)	N/A	
reduction or loss of specific habitat features (J03.01)	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)	
diffuse pollution to surface waters due to agricultural and forestry activities (H01.05)	medium importance (M)	N/A	
Canalisation & water deviation (J02.03)	medium importance (M)	N/A	
reduction or loss of specific habitat features (J03.01)	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 populations formerly attributed in Northern Italy to U. elongatulus, are now attributed to U. mancus and U. glaucinus for Lake Garda; the taxonomy is still very confused and in urgent need of clarification.		
2.8.3 Trans-boundary assessment			

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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 Inadequate (U1) qualifiers unknown (x)
2.9.4. Future prospects	assessment Inadequate (U1) qualifiers declining (-)
2.9.5 Overall assessment of Conservation Status	Inadequate (U1)
2.9.5 Overall trend in Conservation Status	unknown (x)

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	N/A		
3.1.3 Trend of population size within	N/A		

3.2 Conversation Measures