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	**4124**
0.2.2 Species name	**Alosa agone**
0.2.3 Alternative species scientific name	Alosa fallax lacustris
0.2.4 Common name	agone

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	2001-2012
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 Alessandra Ippoliti, Andrea Sibilia (Associazione Italiana Ittiologi Acque dolci - AIIAD) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (Institute for Environmental Protection and Research - ISPRA). Information, unpublished data and experts' judgments have been provided by Francesco Nonnis Marzano, Massimo Lorenzoni, Giuseppe Maio, Massimo Pascale, Armando Piccinini, Elisabetta Pizzul, Cesare M. Puzzi, Lorenzo Tancioni, Paolo Turin (AIIAD).

Cottiglia, 1968. in Carta Ittica di I livello dei principali bacini idrografici della Provincia di Cagliari - Bioprogramm scrl;
Provincia di Cagliari, 2007. Carta Ittica di I livello dei principali bacini idrografici della Provincia di Cagliari - Bioprogramm scrl - (volumi 1 e 2). Provincia di Cagliari.
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.
Zerunian S., 2004. Pesci delle acque interne d'Italia. Quad Cons. Natura, 20, Min. Ambiente - Ist. Naz. Fauna Selvatica.

2.3 Range

2.3.1 Surface area - Range (km²)	400	
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	1989-2012	
2.3.7 Long-term trend direction	stable (0)	
2.3.8 Long-term trend magnitude	min	max
2.3.9 Favourable reference range	area (km²)	
	operator	approximately equal to (≈)
	unkown	No
	method	Expert opinion
2.3.10 Reason for change	Improved knowledge/more accurate dataUse of different method	

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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	3	max	3
2.4.3 Additional information	Definition of locality			
	Conversion method	not available		
	Problems	it's not possible to convert grids into individuals		
2.4.4 Year or period	2001-2012			
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)			
2.4.8 Short-term trend magnitude	min		max	confidence interval
2.4.9 Short-term trend method	Estimate based on partial data with some extrapolation and/or modelling (2)			
2.4.10 Long-term trend period	1989-2012			
2.4.11 Long term trend direction	stable (0)			
2.4.12 Long-term trend magnitude	min		max	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 opinion		
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 opinion
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	stable (0)
2.5.7 Long-term trend period	1989-2012
2.5.8 Long term trend direction	stable (0)
2.5.9 Area of suitable habitat (km²)	
2.5.10 Reason for change	Improved knowledge/more accurate data Use of different method

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
pollution to surface waters by industrial plants (H01.01)	high importance (H)	N/A
predation (K03.04)	medium importance (M)	N/A
Professional passive fishing (F02.01)	low importance (L)	N/A
invasive non-native species (I01)	low importance (L)	N/A

2.6.1 Method used – pressures	mainly based on expert judgement and other data (2)

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2.7 Main Threats

Threat	ranking	pollution qualifier(s)
pollution to surface waters by industrial plants (H01.01)	high importance (H)	N/A
predation (K03.04)	medium importance (M)	N/A
Professional passive fishing (F02.01)	low importance (L)	N/A
invasive non-native species (I01)	low importance (L)	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 has been introduced in the volcanic lakes of Lazio 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

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
Measures needed, but not implemented (1.2)		()		

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 Alessandra Ippoliti, Andrea Sibilia (Associazione Italiana Ittiologi Acque dolci - AIIAD) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (Institute for Environmental

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

Protection and Research - ISPRA). Information, unpublished data and experts' judgments have been provided by Francesco Nonnis Marzano, Massimo Lorenzoni, Giuseppe Maio, Massimo Pascale, Armando Piccinini, Elisabetta Pizzul, Cesare M. Puzzi, Lorenzo Tancioni, Paolo Turin (AIIAD).

ERSAF, 2012. Programma della Pesca e dell'Acquacoltura della Regione Lombardia 2012-2014. Piano approvato con DGR n. 4245 del 25/10/201.

2.3 Range

2.3.1 Surface area - Range (km²)			
2.3.2 Method - Range surface area	N/A		
2.3.3 Short-term trend period			
2.3.4 Short-term trend direction	N/A		
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 (km²)		
	operator	N/A	
	unkown	No	
	method		
2.3.10 Reason for change			

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	N/A	
	min	max	
2.4.3 Additional information	Definition of locality		
	Conversion method		
	Problems		
2.4.4 Year or period			
2.4.5 Method – population size	N/A		
2.4.6 Short-term trend period			
2.4.7 Short term trend direction	N/A		
2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	N/A		
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	N/A	
	unknown	No	
	method		
2.4.15 Reason for change			

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km²)

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2.5.2 Year or period	
2.5.3 Method used - habitat	N/A
2.5.4 a) Quality of habitat	
2.5.4 b) Quality of habitat - method	
2.5.5 Short term trend period	
2.5.6 Short term trend direction	N/A
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	

2.6 Main Pressures

2.6.1 Method used – pressures	N/A

2.7 Main Threats

2.7.1 Method used – threats	N/A

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	N/A
	qualifiers	N/A
2.9.2. Population	assessment	N/A
	qualifiers	N/A
2.9.3. Habitat	assessment	N/A
	qualifiers	N/A
2.9.4. Future prospects	assessment	N/A
	qualifiers	N/A
2.9.5 Overall assessment of Conservation Status	N/A	
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

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

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Regulation/ Management of fishery in limnic systems (7.2)	Administrative	high importance (H)	Both	Long term

2. Biogeographical Or Marine Level

2.1 Biogeographical Region	**Alpine (ALP)**
2.2 Published sources	The present species assessment (fields 0.1-2.9) has been compiled by Alessandra Ippoliti, Andrea Sibilia (Associazione Italiana Ittiologi Acque dolci - AIIAD) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (Institute for Environmental Protection and Research - ISPRA). Information, unpublished data and experts' judgments have been provided by Francesco Nonnis Marzano, Massimo Lorenzoni, Giuseppe Maio, Massimo Pascale, Armando Piccinini, Elisabetta Pizzul, Cesare M. Puzzi, Lorenzo Tancioni, Paolo Turin (AIIAD). ERSAF, 2012. Programma della Pesca e dell'Acquacoltura della Regione Lombardia 2012-2014. Piano approvato con DGR n. 4245 del 25/10/201; Piccola guida ittiofauna dei biotopi della provincia di Trento, Carta ittica provincia di Trento, Monitoraggi ad hoc riserve naturali provinciali; Provincia di Como, 2005. Carta ittica della Provincia di Como. Unpublished data.

2.3 Range

2.3.1 Surface area - Range (km²)	5500	
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	1989-2012	
2.3.7 Long-term trend direction	stable (0)	
2.3.8 Long-term trend magnitude	min	max
2.3.9 Favourable reference range	area (km²)	
	operator	approximately equal to (≈)
	unkown	No
	method	Expert opinion
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	41	max	41
2.4.3 Additional information	Definition of locality			
	Conversion method	not available		
	Problems	it's not possible to convert grids into individuals		
2.4.4 Year or period	2001-2012			
2.4.5 Method – population size	Estimate based on partial data with some extrapolation and/or modelling (2)			

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2.4.6 Short-term trend period	2001-2012		
2.4.7 Short term trend direction	stable (0)		
2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	Estimate based on partial data with some extrapolation and/or modelling (2)		
2.4.10 Long-term trend period	1989-2012		
2.4.11 Long term trend direction	stable (0)		
2.4.12 Long-term trend magnitude	min	max	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 opinion	
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 opinion
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	stable (0)
2.5.7 Long-term trend period	1989-2012
2.5.8 Long term trend direction	stable (0)
2.5.9 Area of suitable habitat (km²)	
2.5.10 Reason for change	Improved knowledge/more accurate data 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
Professional passive fishing (F02.01)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
Dykes, embankments, artificial beaches, general (J02.12)	low importance (L)	N/A
predation (K03.04)	low importance (L)	N/A

2.6.1 Method used – pressures: mainly based on expert judgement and other data (2)

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
pollution to surface waters by industrial plants (H01.01)	high importance (H)	N/A
invasive non-native species (I01)	high importance (H)	N/A
Professional passive fishing (F02.01)	medium importance (M)	N/A
Dykes, embankments, artificial beaches, general (J02.12)	medium importance (M)	N/A
predation (K03.04)	medium importance (M)	N/A
potting (F02.01.01)	low importance (L)	N/A

2.7.1 Method used – threats: expert opinion (1)

2.8 Complementary Information

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2.8.1 Justification of % thresholds for trends	
2.8.2 Other relevant Information	The species has been introduced in lake Caldonazzo (TN).
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 fishery in limnic systems (7.2)	Legal Administrative	high importance (H)	Both	Maintain Long term

Notes

Species name: Alosa agone (4124) Region code: ALP

Field label	Note	User
2.3.1 Surface area - Range (km²)	The area of the range 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

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