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	**1103**
0.2.2 Species name	**Alosa fallax**
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	cheppia

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	2000-2012
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 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 Information, unpublished data and experts' judgments have been provided by Francesco Nonnis Marzano, Massimo Lorenzoni, Giuseppe Maio, Massimo Pascale, Armando Piccinini, Elisabetta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).

A.A.V.V., 2007. Carta ittica di 1° livello dei principali bacini idrografici della provincia di Cagliari 98 pp.
Bernardi L., Favilli L., Manganelli G., Nelli L., Piazzini S., Querci G., Radi M., Leonzio C., 2004. Carta delle Vocazioni Ittiofaunistiche della Provincia di Grosseto. Dipartimento Scienze Ambientali, Università di Siena - Amministrazione Provinciale di Grosseo. 4 vol.
Cau A. (1996). Acque a salmonidi e ciprinidi. Relazione tecnica. Regione della Sardegna. Università degli studi di Cagliari, Dipartimento di Biologia Animale ed Ecologia, 180 pp;
Dati progetti GRUND e MEDITS, GSA 9, Unità Operative 2 (ARPAT9 e 3 (CIBM);
G.R.A.I.A. Srl, 2011. Carta Ittica della Provincia di Olbia Tempio. Provincia di Olbia-Tempio, 191 pp;
Nocita A., 2012. Indagine relativa ad alcune specie appartenenti alla fauna ittica d'acqua dolce: analisi della presenza e consistenza di Lampetra fluviatilis, Alosa fallax, Leuciscus lucumonis, Barbus plebejus, Barbus tyberinus, con particolare riferimento al Bacino dell'Arno. Museo di Storia Naturale dell'Università di Firenze. Inedito;
Nocita A., Busatto T., Maio G., Bonaretti R., 2010. Carta Ittica della Provincia di Pisa, Amministrazione provinciale di Pisa pp. 228;
Provincia di Livorno, 2010. Carta Ittica delle acque interne della Provincia di Livorno. Provincia di Livorno, 199 pp.
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.

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Regione Liguria, 2008, Carta della Biodiversità, www.ambienteinliguria.it;
Report 2006 Regione Abruzzo;
Report 2006 Regione Basilicata;
Report 2006 Regione Campania;
Report 2006 Regione Molise;
Sarrocco S., Maio G., Celauro e Tancioni L., 2012. Carta della Biodiversità ittica delle acque correnti del Lazio. Edizioni ARP, Roma, 194;

2.3 Range

2.3.1 Surface area - Range (km²)	19700	
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	1989-2012	
2.3.7 Long-term trend direction	decrease (-)	
2.3.8 Long-term trend magnitude	min	max
2.3.9 Favourable reference range	area (km²)	
	operator	much more than (>>)
	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 69	max 69	
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	2000-2012		
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	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	decrease (-)		
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	much more than (>>)	
	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

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

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	decrease (-)
2.5.7 Long-term trend period	1989-2012
2.5.8 Long term trend direction	decrease (-)
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)
surface water abstractions for agriculture (J02.06.01)	high importance (H)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	high importance (H)	N/A
reduction in migration/ migration barriers (J03.02.01)	high importance (H)	N/A
Sand and gravel extraction (C01.01)	medium importance (M)	N/A
Fishing and harvesting aquatic resources (F02)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
predation (K03.04)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
Leisure fishing (F02.03)	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)
anthropogenic reduction of habitat connectivity (J03.02)	high importance (H)	N/A
reduction in migration/ migration barriers (J03.02.01)	high importance (H)	N/A
Sand and gravel extraction (C01.01)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
problematic native species (I02)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
Fishing and harvesting aquatic resources (F02)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	medium importance (M)	N/A
modifying structures of inland water courses (J02.05.02)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A

2.7.1 Method used – threats	expert opinion (1)

2.8 Complementary Information

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

2.8.1 Justification of % thresholds for trends	
2.8.2 Other relevant Information	The efforts made in the last years for the defragmentation of the hydrographic net of Northern Italy will enlarge the species' range in the short term, improving the general status of Alosa fallax. In particular, the future realization of a fishpass at Isola Serafini Dam will remove the main barrier for the fish migration.
2.8.3 Trans-boundary assessment	

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

2.9.1 Range	assessment Bad (U2) qualifiers N/A
2.9.2. Population	assessment Bad (U2) qualifiers N/A
2.9.3. Habitat	assessment Inadequate (U1) qualifiers N/A
2.9.4. Future prospects	assessment Inadequate (U1) qualifiers N/A
2.9.5 Overall assessment of Conservation Status	Bad (U2)
2.9.5 Overall trend in Conservation Status	improving (+)

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 areas/sites (6.1)	Legal	high importance (H)	Both	Not evaluated
Regulation/ Management of fishery in marine and brackish systems (7.3)	Legal	high importance (H)	Both	Not evaluated
Legal protection of habitats and species (6.3)	Administrative	medium importance (M)	Inside	Maintain Long term

2. Biogeographical Or Marine Level

2.1 Biogeographical Region 2.2 Published sources	**Continental (CON)** 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

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

Lorenzoni, Giuseppe Maio, Massimo Pascale, Armando Piccinini, Elisabetta Pizzul, Cesare M. Puzzi, Lorenzo Tancioni, Paolo Turin (AIIAD).

Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): IT3340007; IT3250030 IT20B0010; IT20B0006

Castaldelli G. & Rossi R., 2008. Carta ittica dell'Emilia-Romagna Zone B e A. Regione Emilia-Romagna, 324 pp.;
Dataset ETP 1988-2012. Regione Friuli Venezia Giulia;
G.R.A.I.A. Srl, 2007. Carta Ittica del Fiume Po. Autorità di Bacino del Fiume Po, Parma. Technical Report, unpublished document;
Lorenzoni M., Esposito L, 2012. Carta Ittica delle Marche. Pubblicato sul web. 631 pp;
Mappatura effettuata mediante GIS attraverso la georeferenziazione su griglia UE 10 km delle segnalazioni archiviate sulla Banca Dati Regionale (aggiornamento al 2010);
Marconato E., Maio G., Salviati S., 2000. La fauna ittica della Provincia di Venezia. Provincia di Venezia, Ass. Caccia, Pesca e Polizia Provinciale, 176 pp;
Provincia di Verona, 2008. Carta Ittica della Provincia di Verona. Rapporto tecnico pubblicato sul web. 210 pp;
Puzzi C.M., Monicelli F., Trasforini S., Riva M., Gentili G., 2001. Carta ittica della Provincia di Mantova. Provincia di Mantova. Società G.R.A.I.A. srl . Technical Report, unpublished document;
Regione Emilia-Romagna, 2006. Carta ittica dell'Emilia-Romagna Zona "C". Regione Emilia-Romagna, 160 pp.

2.3 Range

2.3.1 Surface area - Range (km²)	14500
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	1989-2012
2.3.7 Long-term trend direction	decrease (-)
2.3.8 Long-term trend magnitude	min max
2.3.9 Favourable reference range	area (km²)
	operator much more than (>>)
	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 50 max 50
2.4.3 Additional information	Definition of locality
	Conversion method not available
	Problems it's not possible to convert grids into individuals

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

2.4.4 Year or period	2000-2012
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 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	decrease (-)
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 much more than (>>)
	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	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	1989-2012
2.5.8 Long term trend direction	decrease (-)
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)
surface water abstractions for agriculture (J02.06.01)	high importance (H)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	high importance (H)	N/A
reduction in migration/ migration barriers (J03.02.01)	high importance (H)	N/A
Sand and gravel extraction (C01.01)	medium importance (M)	N/A
Fishing and harvesting aquatic resources (F02)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
predation (K03.04)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
Leisure fishing (F02.03)	low importance (L)	N/A

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

2.7 Main Threats

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

Threat	ranking	pollution qualifier(s)
anthropogenic reduction of habitat connectivity (J03.02)	high importance (H)	N/A
reduction in migration/ migration barriers (J03.02.01)	high importance (H)	N/A
Sand and gravel extraction (C01.01)	medium importance (M)	N/A
Fishing and harvesting aquatic resources (F02)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
problematic native species (I02)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	medium importance (M)	N/A
modifying structures of inland water courses (J02.05.02)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	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	The efforts made in the last years for the defragmentation of the hydrographic net of Northern Italy will enlarge the species' range in the short term, improving the general status of Alosa fallax. In particular, the future realization of a fishpass at Isola Serafini Dam will remove the main barrier for the fish migration.
2.8.3 Trans-boundary assessment	

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

2.9.1 Range	assessment	Bad (U2)
	qualifiers	N/A
2.9.2. Population	assessment	Bad (U2)
	qualifiers	N/A
2.9.3. Habitat	assessment	Inadequate (U1)
	qualifiers	N/A
2.9.4. Future prospects	assessment	Inadequate (U1)
	qualifiers	N/A
2.9.5 Overall assessment of Conservation Status	Bad (U2)	
2.9.5 Overall trend in Conservation Status	improving (+)	

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	

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

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 Recurrent	low importance (L)	Both	Not evaluated
Other species management measures (7.0)	One-off	high importance (H)	Both	Long term