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	**1095**
0.2.2 Species name	**Petromyzon marinus**
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	lampreda di mare

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	1988-2012
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 Information, unpublished data and experts' judgments have been provided by Francesco Nonnis Marzano, Massimo Lorenzoni, Giuseppe Maio, Massimo Pascale, Armando Piccinini, Elisabetta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).

Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): IT51A0039

Distribution data for the following Nature 2000 sites have been removed by the Ministry of Environment (source: Italian Nature 2000 database): ITB030033; ITB030037

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.;
Cau A., (2009). Rinvenimento di un esemplare adulto nei pressi della foce del fiume Tirso (Or). Dati inediti;
Cottiglia M. (1968) " La distribuzione della ittiofauna dulcacquicola in Sardegna. Rivista di Idrobiologia vol. VII " fasc 1-2: 63-115;
Dataset ETP 1988-2012. Regione Friuli Venezia Giulia;
Mappatura effettuata mediante GIS attraverso la georeferenziazione su griglia UE 10 km delle segnalazioni archiviate sulla Banca Dati Regionale (aggiornamento al 2010);
Mizzan L., Vianello C., 2007 - Petromyzon marinus. In: Biodiversità della Laguna di Venezia e della costa nord-adriatica veneta. Segnalazioni (189-201). Boll. Mus. Civ. Sc.Nat. Venezia, 48 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;
Nonnis Marzano F., Piccinini A., Palanti E., Nocita A., Apollonio M., 2010. Stato delle popolazioni ittiche del territorio toscano con particolare riferimento alle specie a rischio. Regione Toscana Vol II pp. 197;
Piccinini A., 2011. Aggiornamento della Carta Ittica di Grosseto.
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.
Regione Basilicata, Dipartimento Ambiente, Politiche della Sostenibilità, 2004. Carta Ittica Regionale, pp. 336.
Regione Liguria, 2008, Carta della Biodiversità, www.ambienteinliguria.it;
Report 2006. Regione Campania;
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)	6000		
2.3.2 Method - Range surface area	Estimate based on expert opinion with no or minimal sampling (1)		
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	29	max	29
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	1996-2012			
2.4.5 Method – population size	Estimate based on expert opinion with no or minimal sampling (1)			
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 (-)			

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

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)
invasive non-native species (I01)	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)	medium importance (M)	N/A
reclamation of land from sea, estuary or marsh (J02.01.02)	medium importance (M)	N/A
Removal of sediments (mud...) (J02.02)	medium importance (M)	N/A
Canalisation & water deviation (J02.03)	medium importance (M)	N/A
modifying structures of inland water courses (J02.05.02)	high importance (H)	N/A
dykes and flooding defence in inland water systems (J02.12.02)	medium importance (M)	N/A
reduction in migration/ migration barriers (J03.02.01)	high importance (H)	N/A
predation (K03.04)	medium importance (M)	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)
invasive non-native species (I01)	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)	medium importance (M)	N/A
reclamation of land from sea, estuary or marsh (J02.01.02)	medium importance (M)	N/A
Removal of sediments (mud...) (J02.02)	medium importance (M)	N/A

Canalisation & water deviation (J02.03)	medium importance (M)	N/A
modifying structures of inland water courses (J02.05.02)	high importance (H)	N/A
dykes and flooding defence in inland water systems (J02.12.02)	medium importance (M)	N/A
reduction in migration/ migration barriers (J03.02.01)	high importance (H)	N/A
predation (K03.04)	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	
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	Bad (U2)
	qualifiers	N/A
2.9.5 Overall assessment of Conservation Status	Bad (U2)	
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	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 Administrative	high importance (H)	Both	Not evaluated
Legal protection of habitats and species (6.3)	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

2. Biogeographical Or Marine Level

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

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 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). Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): IT4060016; IT3210042 Dataset ETP 1988-2012. regione Friuli Venezia Giulia; Mappatura effettuata mediante GIS attraverso la georeferziazione su griglia UE 10 km delle segnalazioni archiviate sulla Banca Dati Regionale (aggiornamento al 2010); Mizzan L., Vianello C., 2007 - Petromyzon marinus. In: Biodiversità della Laguna di Venezia e della costa nord-adriatica veneta. Segnalazioni (189-201). Boll. Mus. Civ. Sc.Nat. Venezia, 48 pp.

2.3 Range

2.3.1 Surface area - Range (km²)	3300	
2.3.2 Method - Range surface area	Estimate based on expert opinion with no or minimal sampling (1)	
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	9	max	9
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	1988-2012			
2.4.5 Method – population size	Estimate based on expert opinion with no or minimal sampling (1)			
2.4.6 Short-term trend period	2001-2012			
2.4.7 Short term trend direction	decrease (-)			

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

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)
invasive non-native species (I01)	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)	medium importance (M)	N/A
reclamation of land from sea, estuary or marsh (J02.01.02)	medium importance (M)	N/A
Removal of sediments (mud...) (J02.02)	medium importance (M)	N/A
Canalisation & water deviation (J02.03)	medium importance (M)	N/A
modifying structures of inland water courses (J02.05.02)	high importance (H)	N/A
dykes and flooding defence in inland water systems (J02.12.02)	medium importance (M)	N/A
reduction in migration/ migration barriers (J03.02.01)	high importance (H)	N/A
predation (K03.04)	medium importance (M)	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)
invasive non-native species (I01)	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)	medium importance (M)	N/A
reclamation of land from sea, estuary or marsh (J02.01.02)	medium importance (M)	N/A
Removal of sediments (mud...) (J02.02)	medium importance (M)	N/A
Canalisation & water deviation (J02.03)	medium importance (M)	N/A
modifying structures of inland water courses (J02.05.02)	high importance (H)	N/A
dykes and flooding defence in inland water systems (J02.12.02)	medium importance (M)	N/A
reduction in migration/ migration barriers (J03.02.01)	high importance (H)	N/A
predation (K03.04)	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

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: Bad (U2); qualifiers: N/A

2.9.5 Overall assessment of Conservation Status: Bad (U2)

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: 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
Restoring/improving water quality (4.1)	Administrative Recurrent	low importance (L)	Both	Not evaluated
Regulation/ Management of hunting and taking (7.1)	Administrative Recurrent	low importance (L)	Both	Not evaluated

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

Regulating/Management exploitation of natural resources on land (9.1)	Administrative Recurrent	low importance (L)	Both	Not evaluated