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	**1097**
0.2.2 Species name	**Lethenteron zanandreai**
0.2.3 Alternative species scientific name	Lampetra zanandreai
0.2.4 Common name	lampreda padana

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	1996-2012
1.1.4 Additional map	No
1.1.5 Range map	Yes

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 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 Information, unpublished data and experts' judgments have been provided by Francesco Nonnis Marzano, Massimo Lorenzoni, Giuseppe Maio, Massimo Pascale, Armando Piccinini, Elisabetta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): IT3270017; IT1110064; IT1160036; IT1110014; IT1110079; IT1160003.

Bianco P.G., Giovinazzo G, Lorenzoni M., Mearelli M., 1996. Primo reperto di lampreda di ruscello in un bacino adriatico. Atti 4° Conv. Naz. A.I.I.A.D. "Distribuzione della fauna ittica italiana", Riva del Garda dicembre 1991, Provincia di Trento, Ist. Agrario San Michele all'Adige, 253-258;
Dataset ETP 1988-2012. Regione Friuli Venezia Giulia;
G.R.A.I.A. Srl, 2000. Carta delle vocazioni ittiche della provincia di Varese. Provincia di Varese, 264 pp.;
G.R.A.I.A. Srl, 2004. Progetto Life-Natura di "Conservazione di Salmo marmoratus e Rutilus pigus nel Fiume Ticino" - Life-nat00/it/7268. Life-Nature Programm, Consorzio Parco Lombardo della Valle del Ticino, Pontevecchio di Magenta (MI). Technical Reports, unpublished documents;
G.R.A.I.A. Srl, 2005. Carta Ittica della Provincia di Brescia - Provincia di Brescia, settore Caccia e Pesca. Provincia di Brescia, 468 pp.;
G.R.A.I.A. Srl, 2006. Progetto di "Conservazione di Acipenser naccarii nel Fiume Ticino e nel medio corso del Po" - Life-nat03/it/000113. Autorità di Bacino del Fiume Po, Parma. Technical Report, unpublished document;
G.R.A.I.A. Srl, 2007. Aggiornamento della Carta delle Vocazioni Ittiche della Provincia di Milano. Amministrazione Provinciale di Milano. Technical Report, unpublished document;
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Parma. Technical Report, unpublished document;
Lombardi C., 2002. Carta provinciale delle vocazioni ittiche. Provincia di Cremona, Settore Agricoltura, Caccia e Pesca, 400 pp.;
Lorenzoni M., Ghetti L., Carosi A., Dolciami R., 2010, La fauna ittica e i corsi d'acqua dell'Umbria. Sintesi delle Carte Ittiche regionali dal 1986 al 2009. Petruzzi Editore, Perugia. 288 pp.;
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.;
Marconi M., 2010. Carta Ittica della Provincia di Macerata - Acque di Categoria "B - C". Technical Report, published on internet. 73 pp.;
Provincia di Bergamo, 2001. Carta Ittica della provincia di Bergamo. Provincia di Bergamo, 150 pp.;
Provincia di Treviso, 2012. Carta ittica della Provincia di Treviso, aggiornamento 2008-2010. Rapporto tecnico pubblicato sul web. 181 pp.;
Provincia di Verona, 2008. Carta Ittica della Provincia di Verona. Rapporto tecnico pubblicato sul web. 210 pp.;
Provincia di Vicenza, 2012. Aggiornamenti della Carta Ittica della Provincia di Vicenza;
Puzzi C., 2003. Progetto di reintroduzione del Temolo nel Fiume Ticino. Provincia di Pavia. Technical Report, unpublished document;
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;
Turin P., Locatelli R., 2010 “Carta Ittica – Aggiornamento dello stato delle conoscenze sui popolamenti ittici della Provincia di Padova”. Ed. Provincia di Padova, 332 pp;
Turin P., Zanetti M., Caudullo G., Tioli S., Tuzzato B., Mazzetti G., Patroncini D., Turrin D., Zocca A. 2008 - Presenza e distribuzione delle specie ittiche di interesse comunitario nelle acque interne del Veneto, in relazione alle aree SIC. In M. Bon, L. Bonato, F. Scarton (eds.), 2008. Atti 5° Convegno Faunisti Veneti. Boll. Mus. Civ. St. Nat. Venezia, suppl. al vol. 58, pp. 368.

2.3 Range

2.3.1 Surface area - Range (km²)	24600	
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

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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'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 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)
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
dredging/ removal of limnic sediments (J02.02.01)	high importance (H)	N/A
modifying structures of inland water courses (J02.05.02)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
Water abstractions from groundwater (J02.07)	medium importance (M)	N/A
reduction or loss of specific habitat features (J03.01)	high importance (H)	N/A
droughts and less precipitations (M01.02)	medium importance (M)	N/A

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

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

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
dredging/ removal of limnic sediments (J02.02.01)	high importance (H)	N/A
modifying structures of inland water courses (J02.05.02)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
Water abstractions from groundwater (J02.07)	medium importance (M)	N/A
reduction or loss of specific habitat features (J03.01)	high importance (H)	N/A
droughts and less precipitations (M01.02)	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
Other wetland-related measures (4.0)	One-off	high importance (H)	Both	Long term

Restoring/improving water quality (4.1)	Legal Administrative Recurrent	low importance (L)	Both	Not evaluated
Managing water abstraction (4.3)	Legal Administrative Recurrent	low importance (L)	Both	Not evaluated
Other species management measures (7.0)	Administrative	high importance (H)	Both	Long term
Regulation/ Management of hunting and taking (7.1)	Administrative Recurrent One-off	low importance (L)	Both	Not evaluated
Regulating/Management exploitation of natural resources on land (9.1)	Legal Administrative Recurrent	low importance (L)	Both	Not evaluated

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 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): IT3120053; IT1110057; IT3110051; IT3110013; IT3110002.

Badino G., Lodi E., Forneris G., Carta Ittica - Bacino della Dora Baltea, II fase. Regione autonoma VAL, 1997;
G.R.A.I.A. Srl, 2000. Carta delle vocazioni ittiche della provincia di Varese. Provincia di Varese, 264 pp.;
G.R.A.I.A. Srl, 2005. Carta Ittica della Provincia di Brescia - Provincia di Brescia, settore Caccia e Pesca. Provincia di Brescia, 468 pp.;
Piccola guida ittiofauna dei biotopi della provincia di Trento, Carta ittica provincia di Trento, Monitoraggi ad hoc riserve naturali provinciali;
Provincia di Bergamo, 2001. Carta Ittica della provincia di Bergamo. Provincia di Bergamo, 150 pp.;
Provincia di Verona, 2008. Carta Ittica della Provincia di Verona. Rapporto tecnico pubblicato sul web. 210 pp.;
Regione Piemonte, 2009. Ittiofauna del Piemonte (anno di monitoraggio 2009) - Testo di illustrazione dei parametri fisiogeografici relativi agli ambienti fluviali ed allo stato delle popolazioni ittiche - tabella riassuntiva dati.xls. Technical Report, published on internet;
Tortonese E., 1974, Le svertebrés de la Vallée d'Aoste. Revue des espèfces et notes. Bull Soc Flore vald., 28: 68-81
Turin P., Zanetti M., Caudullo G., Tioli S., Tuzzato B., Mazzetti G., Patroncini D., Turrin D., Zocca A. 2008 - Presenza e distribuzione delle specie ittiche di interesse comunitario nelle acque interne del Veneto, in relazione alle aree SIC. In M. Bon, L. Bonato, F. Scarton (eds.), 2008. Atti 5° Convegno Faunisti Veneti. Boll. Mus.

Civ. St. Nat. Venezia, suppl. al vol. 58, pp. 368;
Ufficio Caccia e Pesca della Provincia Autonoma di Bolzano;
Zanetti M., Turin P., Grava Vanin B., Bilò M.F., Rossi V., Guerra D., Loro R., 2000. Carta ittica della Provincia di Belluno. Prov. Belluno, Ass. Pesca e Tutela delle Acque, 287 pp.

2.3 Range

2.3.1 Surface area - Range (km²)	13200
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 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 35 max 35
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	1997-2009
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 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	

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

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)
Fishing and harvesting aquatic resources (F02)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)	high importance (H)	N/A
dredging/ removal of limnic sediments (J02.02.01)	medium importance (M)	N/A
modifying structures of inland water courses (J02.05.02)	high importance (H)	N/A
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
dykes and flooding defence in inland water systems (J02.12.02)	medium importance (M)	N/A
reduction or loss of specific habitat features (J03.01)	high importance (H)	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)
Fishing and harvesting aquatic resources (F02)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)	high importance (H)	N/A
dredging/ removal of limnic sediments (J02.02.01)	medium importance (M)	N/A
modifying structures of inland water courses (J02.05.02)	high importance (H)	N/A
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
dykes and flooding defence in inland water systems (J02.12.02)	medium importance (M)	N/A
reduction or loss of specific habitat features (J03.01)	high importance (H)	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	

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

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	Inadequate (U1)
	qualifiers	N/A
2.9.4. Future prospects	assessment	Inadequate (U1)
	qualifiers	N/A
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	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)	Legal Recurrent	medium importance (M)	Both	Maintain Unknown
Restoring/improving the hydrological regime (4.2)	Recurrent	high importance (H)	Both	Enhance
Managing water abstraction (4.3)	Recurrent	medium importance (M)	Both	Maintain
Legal protection of habitats and species (6.3)	Legal	medium importance (M)	Both	Not evaluated