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0.1 Member State	**IT**
0.2.1 Species code	**1109**
0.2.2 Species name	**Thymallus thymallus**
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	temolo

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	1997-2012
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 Information, unpublished data and experts' judgments have been provided by Francesco Nonnis Marzano, Massimo Lorenzoni, Giuseppe Maio, Massimo Pascale, Armando Piccinini, Elisabetta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).

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 Technical Reports, unpublished document;
G.R.A.I.A. Srl, 2007. Carta Ittica del Fiume Po. Autorità di Bacino del Fiume Po, Parma. Technical Report, unpublished document;
Lombardi C., 2002. Carta provinciale delle vocazioni ittiche. Provincia di Cremona, Settore Agricoltura, Caccia e Pesca, 400 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.;
Perosino G., 2006. Monitoraggio della fauna ittica in Piemonte. Regione Piemonte, unpublished data.
Provincia di Bergamo, 2001. Carta Ittica della provincia di Bergamo. Provincia di Bergamo, 150 pp.;
Provincia di Imperia, 2010. Monitoraggi Ittici. Unpublished data;
Provincia di Milano, 1999-2005. Verbali dei recuperi di pesce compiuti nei canali della rete irrigua. Unpublished data;
Provincia di Treviso, 2012. Carta ittica della Provincia di Treviso, aggiornamento 2008-2010. Rapporto tecnico pubblicato sul web. 181 pp.;
Regione Emilia-Romagna, 2002. Carta ittica dell'Emilia-Romagna Zona "D". Regione Emilia-Romagna, 313 pp.

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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;
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.

2.3 Range

2.3.1 Surface area - Range (km²)	19900
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 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	1999-2012
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)
genetic pollution (animals) (I03.01)	high importance (H)	N/A
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
Fishing and harvesting aquatic resources (F02)	medium importance (M)	N/A
invasive non-native species (I01)	high importance (H)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	medium importance (M)	N/A
reduction or loss of specific habitat features (J03.01)	high importance (H)	N/A
surface water abstractions by hydro-energy (J02.06.06)	high importance (H)	N/A
antagonism arising from introduction of species (K03.05)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	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)
genetic pollution (animals) (I03.01)	high importance (H)	N/A
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
Fishing and harvesting aquatic resources (F02)	medium importance (M)	N/A
invasive non-native species (I01)	high importance (H)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	medium importance (M)	N/A
reduction or loss of specific habitat features (J03.01)	high importance (H)	N/A
surface water abstractions by hydro-energy (J02.06.06)	high importance (H)	N/A
antagonism arising from introduction of species (K03.05)	medium importance (M)	N/A
predation (K03.04)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	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 Italian native populations of Thymallus thymallus, with tipical livery and dorsal fin blue, are going to be displaced by allochthonous population deriving from introduction activities.
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	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

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).

Badino G., Lodi E., Forneris G., Marconato E., Maio G., Pascale M., Perosino G. C., Salviati S., 1997. Carta ittica - Bacino della Dora Baltea (seconda fase). Regione Autonoma Valle d'Aosta - Ass. Agr., Forest. e Ris. Nat., 143 pp.;
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, 2005. Carta Ittica della Provincia di Brescia - Provincia di Brescia, settore Caccia e Pesca. Provincia di Brescia, 468 pp.;

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G.R.A.I.A. Srl, 2007. Carta Ittica del Fiume Po. Autorità di Bacino del Fiume Po, Parma. Technical Report, unpublished document;
Piccola guida ittiofauna dei biotopi della Provincia di Trento, Carta ittica provincia di Trento, Monitoraggi ad hoc riserve naturali provinciali;
Provincia di Bolzano, carte di distribuzione della fauna ittica presenti sul sito (http://www.provincia.bz.it/foreste/pesca/carta-distributiva.asp);
Provincia di Como, 2005. Carta ittica della Provincia di Como. Unpublished data;
Provincia di Sondrio, 1998. Ittiofauna e gestione della pesca in provincia di Sondrio. Edoardo Fusi editore, 101 pp.
Provincia di Verona, 2008. Carta Ittica della Provincia di Verona. Rapporto tecnico pubblicato sul web. 210 pp.;
Regione Lombardia, 2012. Programma Regionale della Pesca e dell'Acquacoltura di Regione Lombardia (P.R.P.A.) per il triennio 2012-2014. Rapporto tecnico, 266 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;
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)	37900	
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	108	max	108
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	1997-2012			
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			

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

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)
genetic pollution (animals) (I03.01)	high importance (H)	N/A
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
Fishing and harvesting aquatic resources (F02)	medium importance (M)	N/A
invasive non-native species (I01)	high importance (H)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	medium importance (M)	N/A
reduction or loss of specific habitat features (J03.01)	high importance (H)	N/A
surface water abstractions by hydro-energy (J02.06.06)	high importance (H)	N/A
antagonism arising from introduction of species (K03.05)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	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)
genetic pollution (animals) (I03.01)	high importance (H)	N/A
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
Fishing and harvesting aquatic resources (F02)	medium importance (M)	N/A

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invasive non-native species (I01)	high importance (H)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	medium importance (M)	N/A
reduction or loss of specific habitat features (J03.01)	high importance (H)	N/A
surface water abstractions by hydro-energy (J02.06.06)	high importance (H)	N/A
antagonism arising from introduction of species (K03.05)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	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: The Italian native populations of Thymallus thymallus, with tipical livery and dorsal fin blue, are going to be displaced by allochthonous population deriving from introduction activities.

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: N/A

3.1.3 Trend of population size within: N/A

3.2 Conversation Measures