

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	5349
0.2.2 Species name	Salmo cetti
0.2.3 Alternative species scientific name	Salmo ghigii
0.2.4 Common name	N/A

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

2.2 Published sources

Continental (CON)

The present species assessment (fields 0.1-2.9) has been compiled by Alessandra Ippoliti, Andrea Sibia (Associazione Italiana Ittiologi Acque dolci - AIAD) 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 Information, unpublished data and experts' judgments have been provided by Francesco Nonnis Marzano, Massimo Lorenzoni, Giuseppe Maio, Massimo Pascale, Armando Piccinini, Elisabetta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 (AIAD).

Caputo V. (Ed) (2003): Ricerche sulla biodiversità della trota fario (*Salmo trutta*, L., 1758) nella Provincia di Pesaro e Urbino e nelle Marche. Quaderni dell'ambiente. Provincia di Pesaro e Urbino.;

Caputo V., Giovannotti M., Nisi Cerioni P., Caniglia M. L. , Splendiani A. (2004): Genetic diversity of brown trout in central Italy. *Journal of Fish Biology*, 65: 403–418.;

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. Petrucci Editore, Perugia. 288 pp.;

Lorenzoni M., Esposito L., (2012): Carta Ittica delle Marche. Internet resource at <http://caccia.regione.marche.it/Portals/0/Carta%20Ittica%20Marche%20DGR.pdf> ;

Pascale M., Chines A., 2009. Carta ittica della Provincia di Lucca. Fipsas - Enal Pesca - Arci pesca Fisa, Comitati Regionali Toscani - Unpem Coordinamento Regionale Toscano. Technical Report. Provincia di Lucca. 403 pp;

Splendiani A., Giovannotti M., Nisi Cerioni P., Caniglia M.L., Caputo V. (2006): Phylogeographic inferences on the native brown trout mtDNA variation in central Italy. *Italian Journal of Zoology*, 73 (2): 179-189.

2.3 Range

2.3.1 Surface area - Range (km ²)	8800
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

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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 (km ²)	
	operator	much more than (>>)
	unknown	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	47	max	47
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	2002-2012			
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 (-)			
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 (km ²)	
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 (km ²)	
2.5.10 Reason for change	Improved knowledge/more accurate data Use of different method

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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
predation (K03.04)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	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

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

Recently, the AIAAD guidelines on systematic, management and conservation of Italian salmonids have defined the presence of a single species in Italy (*Salmo*), differentiating some forms of trout in Evolutionary Significant Units (ESUs) and in Management Units (MUs), and proposing an alternative nomenclature for *Salmo ghigii* (Apennine trout) and *Salmo fibreni* based on phenotypic characteristics, also supported by genetic evidences, and biogeographic considerations. Therefore, in the present assessment *S. ghigii* and *S. fibrenii* should be considered as synonyms of *S. cettii*.

The presence of native Italian Alps ESUs referring to *Salmo ghigii* is still object of scientific discussion, 'cause its distribution area might include also streams of the Alps. Further investigation would be useful to find out the necessary evidences.

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Ref: Gruppo Lavoro Salmonidi (2013). Documento finale in materia di gestione e conservazione dei salmonidi autoctoni italiani. AllAD: pp. 66

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
No measure known/ impossible to carry out specific measures (1.3)		()		

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 - AllAD) 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 (AllAD).

Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): IT6040002

A.A.V.V. (2007). Carta ittica di 1° livello dei principali bacini idrografici della provincia di Cagliari 98 pp.;

A.R.S.I.A.L., 2009. Carta della Biodiversità ittica della Provincia di Frosinone -

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Schede di campionamento. Regione Lazio - Università degli Studi di Roma Tor Vergata. Technical Report, published on internet. 165 pp.;

Bianco P.G e Frezza V. in Bianco P.G. e de Filippo G. (eds.) 2011. Contributo alla conoscenza della fauna ittica d'acqua dolce in aree protette d'Italia. Res.Wildl.Conserv. 3. IGF Publ., USA;

Cau A., (1997). Valutazione della popolazione della trota sarda *Salmo (trutta) macrostigma* nelle acque interne della Sardegna ai fini del suo recupero. Relazione tecnica. Regione autonoma della Sardegna, Assessorato della Difesa dell'Ambiente. Università degli studi di Cagliari, Dipartimento di Biologia Animale ed Ecologia, 180pp.

Cau, 1996. Cau, 1996 in Carta Ittica di I livello dei principali bacini idrografici della Provincia di Cagliari - Bioprogramm srl - (volumi 1 e 2). Provincia di Cagliari, 252 pp.;

Duchi A., 1996. Prime indagini per la conservazione della trota *macrostigma*, *Salmo trutta macrostigma*, Dum., in provincia di Ragusa. 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, 423-434;

G.R.A.I.A. Srl, 2011. Carta Ittica della Provincia di Olbia Tempio. Provincia di Olbia-Tempio, 191 pp.

Borroni I., E. Grimaldi, C. M. Puzzi, C. Romanò, D. Deluca, N. Campagna, 2010. Indagini sulle popolazioni di trota della valle dello Stilaro. Technical Report, unpublished data;

Lorenzoni M., Ghetti L., Carosi A., Dolciemi R., 2010, La fauna ittica e i corsi d'acqua dell'Umbria. Sintesi delle Carte Ittiche regionali dal 1986 al 2009. Petrucci Editore, Perugia. 288 pp.;

Massidda P., Sabatini A., Davini M.A., Conti G., Loddo G., Cau A., 1996. Nuovi dati sulla distribuzione dell'ittiofauna d'acqua dolce in Sardegna. Atti 6° Conv. Naz. A.I.I.A.D. "Carte ittiche dieci anni dopo", Varese Ligure, 6-8 giugno 1996, Regione Liguria, Provincia La Spezia, 239-246;

Moro G.A., Vanzo S., Specchi M., Salpietro L., Mamola C., 2000. La distribuzione della fauna ittica nella Provincia di Reggio Calabria. Atti VIII. Conv. A.I.I.A.D. Codroipo (Udine), giugno 2000: 30-35;

Pascale M., Chines A., 2009. Carta ittica della Provincia di Lucca. Fipsas - Enal Pesca - Arci pesca Fisa, Comitati Regionali Toscani - Unpem Coordinamento Regionale Toscano. Technical Report. Provincia di Lucca. 403 pp.

Piccinini A., 2011. Aggiornamento della Carta Ittica della Provincia di Grosseto; Provincia di Cagliari, 2007. Carta Ittica di I livello dei principali bacini idrografici della Provincia di Cagliari - Bioprogramm srl - (volumi 1 e 2). Provincia di Cagliari; Provincia di Pisa, 2010. Carta Ittica della Provincia di Pisa (prima bozza). Rapporto tecnico pubblicato sul web. 224 pp.;

Provincia di Reggio Calabria, 2005. I corsi d'acqua della Provincia di Reggio Calabria - Carta ittica provinciale; Rapporto tecnico pubblicato sul web. 80 pp.;

Provincia di Siracusa, 2005. La Carta Ittica della Provincia di Siracusa. Provincia di Siracusa, 141 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. Regione Liguria, 2008, Carta della Biodiversità, www.ambienteinliguria.it. Report 2006. Regione Abruzzo.

Sabatini A., Cannas R., Follesa M.C., Manunza A., Matta G., Palmas F., Pendugiu A.A., Serra F., Cau A. (2011) Genetic characterization and artificial reproduction attempt of endemic Sardinian trout: experiences in captivity. Italian Journal of Zoology. 78(1): 20-26;

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Sabatini A., R. Cannas, A. Manunza, G. Matta, F. Palmas, A.A. Pendugiu, P. Pesci, P.F. Serra, A. Cau. (2009). Studio delle popolazioni di *Salmo (trutta) macrostigma* in due aree SIC della Sardegna. Boll. Mus. Ist. Biol. Univ. Genova, 71;

Sabatini A., R. Cannas, S. Marcias, F. Palmas, P. Serra, A. Cau (2010). Primo intervento di tutela della forma endemica di trota della Sardegna. XIII Congresso A.I.I.A.D. Sansepolcro (Arezzo) 12-13 novembre.

Sarrocco S., Maio G., Celauro e Tancioni L., 2012. Carta della Biodiversità ittica delle acque correnti del Lazio. Edizioni ARP, Roma, 194;

Tigano C., Ferrito V., 1996. I pesci delle acque interne e di estuario. Atti del Convegno su "La Fauna degli Iblei" (Noto, 13 e 14 maggio 1995), Ente Fauna Siciliana: 81-102;

Zava B., Beller T., Chiari P., Nardi P.A., Violani C., Bernini F., 1996. Note faunistiche e tassonomiche su *Salmo (trutta) macrostigma* (Dum.) della Sicilia (Osteichthyes, Salmonidae). 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: 413-421;

Zerunian S., Leone M., 1996. Monitoraggio delle acque interne e carta ittica della Provincia di Latina: i bacini campione del Fiume Amaseno e del Lago di Fondi. (a cura di Zerunian, Leone). Provincia di Latina, 264 pp.

2.3 Range

2.3.1 Surface area - Range (km ²)	38800
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 (km ²) 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 174 max 174
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 (-)

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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 (km ²)	Absent data (0)
2.5.2 Year or period	
2.5.3 Method used - habitat	
2.5.4 a) Quality of habitat	
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 (km ²)	Improved knowledge/more accurate data Use of different method
2.5.10 Reason for change	

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
predation (K03.04)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	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)
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

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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

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

Recently, the AIAAD guidelines on systematic, management and conservation of Italian salmonids have defined the presence of a single species in Italy (*Salmo*), differentiating some forms of trout in Evolutionary Significant Units (ESUs) and in Management Units (MUs), and proposing an alternative nomenclature for *Salmo ghigii* (Apennine trout) and *Salmo fibreni* based on phenotypic characteristics, also supported by genetic evidences, and biogeographic considerations. Therefore, in the present assessment *S. ghigii* and *S. fibreni* should be considered as synonyms of *S. cettii*.

The presence of native Italian Alps ESUs referring to *Salmo ghigii* is still object of scientific discussion, 'cause its distribution area might include also streams of the Alps. Further investigation would be useful to find out the necessary evidences.

Ref: Gruppo Lavoro Salmonidi (2013). Documento finale in materia di gestione e conservazione dei salmonidi autoctoni italiani. AIIAD: pp. 66

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)

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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 hunting and taking (7.1)	Administrative	low importance (L)	Both	Maintain
Regulation/ Management of fishery in limnic systems (7.2)	Legal Administrative Recurrent	high importance (H)	Both	Maintain Long term Not evaluated
Specific single species or species group management measures (7.4)	Recurrent One-off	high importance (H)	Both	Maintain Enhance Long term

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 - AIAD) 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 (AIAD).

Report 2006. Regione Abruzzo

2.3 Range

2.3.1 Surface area - Range (km ²)	4000
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 (km ²) 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	8 max 8
2.4.3 Additional information	Definition of locality	
	Conversion method	not available
	Problems	it's not possible to convert grids into individuals

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2.4.4 Year or period	2000-2006
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 (-)
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 (km ²)	
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 (km ²)	
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)	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

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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
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
predation (K03.04)	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

Recently, the AIAAD guidelines on systematic, management and conservation of Italian salmonids have defined the presence of a single species in Italy (*Salmo*), differentiating some forms of trout in Evolutionary Significant Units (ESUs) and in Management Units (MUs), and proposing an alternative nomenclature for *Salmo ghigii* (Apennine trout) and *Salmo fibreni* based on phenotypic characteristics, also supported by genetic evidences, and biogeographic considerations. Therefore, in the present assessment *S. ghigii* and *S. fibrenii* should be considered as synonyms of *S. cettii*.

The presence of native Italian Alps ESUs referring to *Salmo ghigii* is still object of scientific discussion, 'cause its distribution area might include also streams of the Alps. Further investigation would be useful to find out the necessary evidences.

Ref: Gruppo Lavoro Salmonidi (2013). Documento finale in materia di gestione e conservazione dei salmonidi autoctoni italiani. AIIAD: pp. 66

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 (-)

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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
No measure known/ impossible to carry out specific measures (1.3)		()		