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	**1114**
0.2.2 Species name	**Rutilus pigus**
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	pigo

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	1999-2012
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 Information, unpublished data and experts' judgments have been provided by Francesco Nonnis Marzano, Massimo Lorenzoni, Giuseppe Maio, Massimo Pascale, Armando Piccinini, Elisabetta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): IT4060005 ; IT4060016; IT3260018; IT1110017; IT20A0007; IT20A0017; IT20A0019; IT20A0006; IT20A0016.

Bioprogramm S.c.r.l., 2004. Censimenti effettuati per la Provincia di Milano. Amministrazione Provinciale di Milano, Unpublished data;
Bioprogramm S.c.r.l., 2007. Censimenti effettuati per la Provincia di Milano. Amministrazione Provinciale di Milano, Unpublished data;
ERSAF, 2012. Programma Regionale della Pesca e dell'Acquacoltura di Regione Lombardia (P.R.P.A.) per il triennio 2012-2014. Rapporto tecnico, 266 pp.;
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, 2003. Conservazione della trota marmorata nel Parco Adda Sud. Parco Adda Sud. Technical Report, unpublished document;
G.R.A.I.A. Srl, 2003. Progetto di conservazione della Trota marmorata nel Parco Adda Nord. Parco Adda Nord. Technical Report, unpublished document;
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 Technical Reports, unpublished documents;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, 2005. Studio di Impatto Ambientale per la via navigabile Locarno-

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

Milano: Comparto Ittico. Relazione tecnica consegnata al Parco del Ticino. Consorzio Parco Lombardo della Valle del Ticino, Pontevecchio di Magenta (MI). 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;
G.R.A.I.A. Srl, 2011. Contenimento siluro, nell'ambito del progetto "Attivazione di un network per il contenimento delle specie ittiche invasive nei SIC della Provincia di Varese". Unpublished data;
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.;
Piccola guida ittiofauna dei biotopi della provincia di Trento, Carta ittica provincia di Trento, Monitoraggi ad hoc riserve naturali provinciali ;
Provincia di Como, 2005. Carta ittica della Provincia di Como. Unpublished data.
Provincia di Milano, 1999-2005. Verbali dei recuperi di pesce compiuti nei canali della rete irrigua. Unpublished data;
Provincia di Pavia, 2007. Carta Ittica di Pavia 2007 Amministrazione Provinciale di Pavia. Technical Report, unpublished document;
Provincia di Verona, 2008. Carta Ittica della Provincia di Verona. Rapporto tecnico pubblicato sul web. 210 pp.
Turin P. & Locatelli R., 2010. Carta Ittica Aggiornamento dello stato delle conoscenze sui popolamenti ittici della Provincia di Padova. Ed Provincia di Padova, 332 p.;
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)	18400	
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	55	max	55

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

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

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	Bad
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)
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
invasive non-native species (I01)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	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
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
Sand and gravel extraction (C01.01)	high importance (H)	N/A

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

2.7 Main Threats

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
invasive non-native species (I01)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	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
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
Sand and gravel extraction (C01.01)	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	

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	Bad (U2)
	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
Other species management measures (7.0)	Administrative	high importance (H)	Both	Long term

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

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). ERSAF, 2012. Programma Regionale della Pesca e dell'Acquacoltura di Regione Lombardia (P.R.P.A.) per il triennio 2012-2014. Rapporto tecnico, 266 pp; 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, 2005. Studio di Impatto Ambientale per la via navigabile Locarno-Milano: Comparto Ittico. Relazione tecnica consegnata al Parco del Ticino. Consorzio Parco Lombardo della Valle del Ticino, Pontevecchio di Magenta (MI). Technical Report, unpublished document; Provincia di Como, 2005. Carta ittica della Provincia di Como. Unpublished data; 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)	5700	
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

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

2.4.2 Population size (other than individuals)	Unit: number of map 10x10 km grid cells (grids10x10) min: 24 max: 24
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

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	Bad
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)
anthropogenic reduction of habitat connectivity (J03.02)	medium importance (M)	N/A
reduction in migration/ migration barriers (J03.02.01)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
predation (K03.04)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
Sand and gravel extraction (C01.01)	high importance (H)	N/A

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

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)	medium importance (M)	N/A
reduction in migration/ migration barriers (J03.02.01)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
predation (K03.04)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	high importance (H)	N/A
Sand and gravel extraction (C01.01)	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	

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	Bad (U2)
	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

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

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Other species management measures (7.0)	Administrative	high importance (H)	Both	Long term