0.1 Member State	IT
0.2.1 Species code	1034
0.2.2 Species name	Hirudo medicinalis
0.2.3 Alternative species scientific name	N/A
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)
2007-2012
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

#### Mediterranean (MED)

The present species assessment (fields 0.1-2.9) has been compiled by Fabio Stoch (on behalf of the Comitato Scientifico per la Fauna d'Italia) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (ISPRA). Information, unpublished data and expert judgements have been provided by Fabio Stoch (Rome).

Collection A. Minelli, Università di Padova

Collection F. Stoch, Rome (confirmed by A. Minelli, Padova)

#### 2.3 Range

2.3.1 Surface area - Range (km²)
2.3.2 Method - Range surface area
2.3.3 Short-term trend period
2.3.4 Short-term trend direction
2.3.5 Short-term trend magnitude
2.3.6 Long-term trend period
2.3.7 Long-term trend direction
2.3.8 Long-term trend magnitude
2.3.9 Favourable reference range

3400

Estimate based on partial data with some extrapolation and/or modelling (2)

2001-2012 stable (0)

min max

N/A

min max

area (km²)

operator approximately equal to (≈)

unkown No

method Expert opinion

2.3.10 Reason for change Use 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 16 max 16

2.4.3 Additional information

**Definition of locality** 

Conversion method not available

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ii, iv alid v species (Ali	ilex bj			
	Problems	it is impossible to co	onvert grid	s into individuals
2.4.4 Year or period 2.4.5 Method – population size 2.4.6 Short-term trend period 2.4.7 Short term trend direction	2007-2012 Estimate based on partial data with some extrapolation and/or modelling (2) 2001-2012 unknown (x)			
2.4.8 Short-term trend magnitude 2.4.9 Short-term trend method 2.4.10 Long-term trend period	min Absent data (0)	max	confidence	e interval
2.4.11 Long term trend direction 2.4.12 Long-term trend magnitude 2.4.13 Long-term trend method 2.4.14 Favourable reference population	N/A min N/A number operator N/A unknown Yes	max	confidence	e interval
2.4.15 Reason for change	method Expert	opinion		
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 2.5.4 a) Quality of habitat 2.5.4 b) Quality of habitat - method 2.5.5 Short term trend period 2.5.6 Short term trend direction 2.5.7 Long-term trend period 2.5.8 Long term trend direction 2.5.9 Area of suitable habitat (km²) 2.5.10 Reason for change	Absent data (0) Moderate Expert opinion 2001-2012 decrease (-) N/A Genuine Use of diffe	erent method		
Pressure		ranking	r	pollution qualifier(s)
abandonment of pastoral systems, lac	k of grazing (ANA N3)	medium importance (	•	N/A
infilling of ditches, dykes, ponds, pools (J02.01.03)		high importance (H)	•	N/A
2.6.1 Method used – pressures	based only on expe	rt judgements (1)		
2.7 Main Threats				
Threat		ranking	F	oollution qualifier(s)
abandonment of pastoral systems, lac	k of grazing (A04.03)	medium importance (	M) I	N/A
infilling of ditches, dykes, ponds, pools (J02.01.03)	, marshes or pits	high importance (H)	١	N/A
droughts and less precipitations (M01.	02)	medium importance (	M) I	N/A
2.7.1 Method used – threats	expert opinion (1)			

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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)

assessment Favourable (FV) 2.9.1 Range

qualifiers N/A

assessment Unknown (XX)

qualifiers N/A

assessment Inadequate (U1)

qualifiers declining (-)

assessment Unknown (XX)

qualifiers N/A

Inadequate (U1)

unknown (x)

N/A

2.9.2. Population

2.9.3. Habitat

2.9.4. Future prospects

2.9.5 Overall assessment of **Conservation Status** 

2.9.5 Overall trend in **Conservation Status** 

## 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

3.1.3 Trend of population size within N/A

3.2 Conversation Measures

## 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 Fabio Stoch (on behalf of the Comitato Scientifico per la Fauna d'Italia) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (ISPRA). Information, unpublished data and expert judgements have been provided by Fabio Stoch (Rome).

Stoch F., 2011. Monitoraggio e individuazione di misure di conservazione per la fauna acquatica (invertebrati e anfibi) degli habitat igrofili ed idrofili del SIC IT3340006 "Carso Triestino e Goriziano" e della ZPS IT3341002 "Aree carsiche della Venezia Giulia". Regione Autonoma FVG.

#### 2.3 Range

2.3.1 Surface area - Range (km<sup>2</sup>)

2.3.2 Method - Range surface area

2.3.3 Short-term trend period

2.3.4 Short-term trend direction

2.3.5 Short-term trend magnitude

2.3.6 Long-term trend period

2400

Estimate based on partial data with some extrapolation and/or modelling (2)

2001-2012

stable (0)

min max

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2.3.7 Long-term trend direction N/A 2.3.8 Long-term trend magnitude min max 2.3.9 Favourable reference range area (km²) operator approximately equal to  $(\approx)$ unkown method **Expert opinion** Use of different method 2.3.10 Reason for change 2.4 Population 2.4.1 Population size Unit N/A (individuals or agreed exception) min max 2.4.2 Population size Unit number of map 10x10 km grid cells (grids10x10) (other than individuals) min 10 max 10 2.4.3 Additional information **Definition of locality** Conversion method not available **Problems** it is impossible to convert grids into individuals 2.4.4 Year or period 2007-2012 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 unknown (x) 2.4.8 Short-term trend magnitude confidence interval min max 2.4.9 Short-term trend method Absent data (0) 2.4.10 Long-term trend period 2.4.11 Long term trend direction N/A 2.4.12 Long-term trend magnitude confidence interval min max 2.4.13 Long-term trend method N/A number 2.4.14 Favourable reference population operator N/A unknown Yes method **Expert opinion** 

2.4.15 Reason for change

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 2.5.8 Long term trend direction N/A 2.5.9 Area of suitable habitat (km<sup>2</sup>) 2.5.10 Reason for change Genuine Use of different method

#### 2.6 Main Pressures

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Pressure  abandonment of pastoral systems, lack of grazing (A04.03)  infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)		ranking	pollution qualifier(s)
		high importance (H)	N/A
		high importance (H)	N/A
2.6.1 Method used – pressures	based only on exper	rt judgements (1)	
2.7 Main Threats			
Threat		ranking	pollution qualifier(s)
abandonment of pastoral systems, la	ck of grazing (A04.03)	high importance (H)	N/A
infilling of ditches, dykes, ponds, poo (J02.01.03)	ls, marshes or pits	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 co	onservation status at e	end of reporting period)	
2.9.1 Range	assessment Favoura	able (FV)	
2.9.2. Population	assessment Unknov qualifiers N/A	assessment Unknown (XX) qualifiers N/A	
2.9.3. Habitat		assessment Inadequate (U1) qualifiers declining (-)	
2.9.4. Future prospects	assessment Unknov qualifiers N/A		
2.9.5 Overall assessment of Conservation Status	Inadequate (U1)		
2.9.5 Overall trend in	unknown (x)		

## 3. Natura 2000 coverage and conservation measures - Annex II species

# 3.1.1 Population Size Unit N/A min max 3.1.2 Method used 3.1.3 Trend of population size within N/A

### 3.2 Conversation Measures

**Conservation Status** 

## 2. Biogeographical Or Marine Level

2.1 Biogeographical Region2.2 Published sources

#### Alpine (ALP)

The present species assessment (fields 0.1-2.9) has been compiled by Fabio Stoch (on behalf of the Comitato Scientifico per la Fauna d'Italia) and Anna Alonzi,

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Piero Genovesi, Francesca Ronchi (ISPRA). Information, unpublished data and expert judgements have been provided by Fabio Stoch (Rome).

Collection A. Minelli, Università di Padova Banche dati Naturalistiche Regione Piemonte + Banca dati IPLA

#### 2.3 Range

2.3.1 Surface area - Range (km²)

2.3.2 Method - Range surface area

2.3.3 Short-term trend period

2.3.4 Short-term trend direction

2.3.5 Short-term trend magnitude

2.3.6 Long-term trend period

2.3.7 Long-term trend direction

2.3.8 Long-term trend magnitude

2.3.9 Favourable reference range

600

Estimate based on expert opinion with no or minimal sampling (1)

2001-2012

unknown (x)

min max

N/A

Unit

Unit

min

max

max

max

max

area (km²)

operator N/A unkown Yes

method Expert opinion

2.3.10 Reason for change

Use of different method

N/A

#### 2.4 Population

2.4.1 Population size

(individuals or agreed exception)

min

2.4.2 Population size

(other than individuals)

min 4

**Definition of locality** 

2007-2012

2001-2012

unknown (x)

Absent data (0)

2.4.3 Additional information

Conversion method not available

Problems it is impossible to convert grids into individuals

Estimate based on partial data with some extrapolation and/or modelling (2)

confidence interval

number of map 10x10 km grid cells (grids10x10)

2.4.4 Year or period

2.4.5 Method – population size

2.4.6 Short-term trend period

2.4.7 Short term trend direction

2.4.8 Short-term trend magnitude

2.4.9 Short-term trend method

2.4.10 Long-term trend period

2.4.11 Long term trend direction

2.4.12 Long-term trend magnitude

2.4.13 Long-term trend method

2.4.14 Favourable reference population

N/A

min

min max confidence interval

N/A

number

operator N/A unknown Yes

method Expert opinion

2.4.15 Reason for change

#### 2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km²)

2.5.2 Year or period

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<ul><li>2.5.3 Method used - habitat</li><li>2.5.4 a) Quality of habitat</li></ul>	Absent data (0) 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	stable (0)
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km²)	

Improved knowledge/more accurate data Use of different method

2.6	Mai	in I	D	200		20
2.U I	viai		ГΙ	<b>C</b> 32	sui	<b>C</b> 3

2.5.10 Reason for change

Pressure	ranking	pollution qualifier(s)
abandonment of pastoral systems, lack of grazing (A04.03)	high importance (H)	N/A
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)	medium importance (M)	N/A

2.6.1 Method used – pressures based only on expert judgements (1)

#### 2.7 Main Threats

Threat	ranking	pollution qualifier(s)
abandonment of pastoral systems, lack of grazing (A04.03)	high importance (H)	N/A
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)	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

Lacking of recent data on this species; a monitorning plan has not been implemented

2.8.3 Trans-boundary assessment

#### 2.9 Conclusions (assessment of conservation status at end of reporting period)

2.9.1 Range	assessment Inadequate (U1) qualifiers unknown (x)
2.9.2. Population	assessment Unknown (XX) qualifiers N/A
2.9.3. Habitat	assessment Favourable (FV) qualifiers N/A
2.9.4. Future prospects	assessment Unknown (XX) qualifiers N/A
2.9.5 Overall assessment of Conservation Status	Inadequate (U1)
2.9.5 Overall trend in Conservation Status	unknown (x)

## 3. Natura 2000 coverage and conservation measures - Annex II species

#### 3.1 Population

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3.1.1 Population Size	Unit min	N/A	max	
3.1.2 Method used	N/A			
3.1.3 Trend of population size within	N/A			
3.2 Conversation Measures				

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