



# NATURA 2000 - STANDARD DATA FORM

For Special Protection Areas (SPA),  
Proposed Sites for Community Importance (pSCI),  
Sites of Community Importance (SCI) and  
for Special Areas of Conservation (SAC)

SITE IT5180012  
SITENAME Valle dell'Inferno e Bandella

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## 1. SITE IDENTIFICATION

1.1 Type	1.2 Site code	<a href="#">Back to top</a>
C	IT5180012	

### 1.3 Site name

Valle dell'Inferno e Bandella
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1.4 First Compilation date	1.5 Update date
1995-07	2019-12

### 1.6 Respondent:

Name/Organisation:	Regione Toscana - Direzione Ambiente ed Energia - Settore Tutela della Natura e del Mare
Address:	Via di Novoli, 26 - 50127 Firenze
Email:	parchiareeprotette_biodiversita@regione.toscana.it

### 1.7 Site indication and designation / classification dates

Date site classified as SPA:	1998-12
National legal reference of SPA designation	Del.C.R. n.342 del 10/11/ 1998
Date site proposed as SCI:	1995-06
Date site confirmed as SCI:	No data
Date site designated as SAC:	2016-05
National legal reference of SAC designation:	DM 24/05/2016 - G.U. 139 del 16-06-2016

## 2. SITE LOCATION

### 2.1 Site-centre location [decimal degrees]:

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Longitude 11.653611      Latitude 43.507778

2.2 Area [ha]: 893.0      2.3 Marine area [%] 0.0

2.4 Sitelength [km]: 0.0

### 2.5 Administrative region code and name

NUTS level 2 code	Region Name

Continental (100.0  
%)

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Annex I Habitat types						Site assessment			
Code	PF	NP	Cover [ha]	Cave [number]	Data quality	A B C D	A B C		
						Representativity	Relative Surface	Conservation	Global
3150 <b>F</b>			0.49		M	C	C	B	C
3240 <b>F</b>			0.06		M	C	C	B	C
3270 <b>F</b>			0.12		M	C	C	B	C
3280 <b>F</b>			0.44		M	C	C	B	C
91E0 <b>F</b>			2.18		M	D			
91F0 <b>F</b>			1.08		M	D			
91M0 <b>F</b>			174.3		M	C	C	B	C
9260 <b>F</b>			1.0		M	D			
92A0 <b>F</b>			18.24		M	B	C	B	B
9340 <b>F</b>			2.84		M	D			

- **PF:** for the habitat types that can have a non-priority as well as a priority form (6210, 7130, 9430) enter "X" in the column PF to indicate the priority form.
- **NP:** in case that a habitat type no longer exists in the site enter: x (optional)
- **Cover:** decimal values can be entered
- **Caves:** for habitat types 8310, 8330 (caves) enter the number of caves if estimated surface is not available.
- **Data quality:** G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation)

### 3.2 Species referred to in Article 4 of Directive 2009/147/EC and listed in Annex II of Directive 92/43/EEC and site evaluation for them

[illegible]

B	A017	<a href="#">Phalacrocorax carbo</a>			c				P	DD	D			
B	A017	<a href="#">Phalacrocorax carbo</a>			w				C	DD	C	B	C	B
M	1303	<a href="#">Rhinolophus hipposideros</a>			r	11	50	i		G	C	B	C	B
A	5367	<a href="#">Salamandrina perspicillata</a>			p				P	DD	C	C	C	C
F	6148	<a href="#">Squalius lucumonis</a>			p				C	DD	B	C	B	B
B	A048	<a href="#">Tadorna tadorna</a>			c				V	DD	D			

- **Group:** A = Amphibians, B = Birds, F = Fish, I = Invertebrates, M = Mammals, P = Plants, R = Reptiles
- **S:** in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes
- **NP:** in case that a species is no longer present in the site enter: x (optional)
- **Type:** p = permanent, r = reproducing, c = concentration, w = wintering (for plant and non-migratory species use permanent)
- **Unit:** i = individuals, p = pairs or other units according to the Standard list of population units and codes in accordance with Article 12 and 17 reporting (see [reference portal](#))
- **Abundance categories (Cat.):** C = common, R = rare, V = very rare, P = present - to fill if data are deficient (DD) or in addition to population size information
- **Data quality:** G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation); VP = 'Very poor' (use this category only, if not even a rough estimation of the population size can be made, in this case the fields for population size can remain empty, but the field "Abundance categories" has to be filled in)

### 3.3 Other important species of flora and fauna (optional)

Species					Population in the site				Motivation					
Group	CODE	Scientific Name	S	NP	Size		Unit	Cat.	Species Annex		Other categories			
					Min	Max		C R V P	IV	V	A	B	C	D
M		<a href="#">Apodemus flavicollis</a>						P						X
M		<a href="#">Apodemus sylvaticus</a>						P						X
A		<a href="#">Bufo bufo</a>						C					X	
R	1284	<a href="#">Coluber viridiflavus</a>						C	X					
R	1281	<a href="#">Elaphe longissima</a>						P	X					
M	1327	<a href="#">Eptesicus serotinus</a>						R	X					
M	5365	<a href="#">Hypsugo savii</a>						P	X					
M	1344	<a href="#">Hystrix cristata</a>						C	X					
R		<a href="#">Lacerta bilineata</a>						P					X	
M	1341	<a href="#">Muscardinus avellanarius</a>						P	X					
M	1341	<a href="#">Muscardinus avellanarius</a>						P	X					
M	1358	<a href="#">Mustela putorius</a>						R		X				
M		<a href="#">Myoxus glis</a>						P						X
M		<a href="#">Neomys fodiens</a>						P						X
M		<a href="#">Neomys fodiens</a>						P					X	
M	1312	<a href="#">Nyctalus noctula</a>						R	X					
M	2016	<a href="#">Pipistrellus kuhlii</a>						P	X					
M	1309	<a href="#">Pipistrellus pipistrellus</a>						P	X					
M		<a href="#">Pitymys savii</a>						P						X
R	1256	<a href="#">Podarcis muralis</a>						C	X					
R	1250	<a href="#">Podarcis sicula</a>						C	X					
I		<a href="#">Potamon fluviatile</a>						P						X
A	1209	<a href="#">Rana dalmatina</a>						P	X					
A		<a href="#">Rana esculenta comp.</a>						C					X	
A	1206	<a href="#">Rana italica</a>						P	X					
M		<a href="#">Sciurus vulgaris</a>						P						X
M		<a href="#">Sorex samniticus</a>						P						X
B		<a href="#">Sylvia cantillans moltonii</a>						R			X		X	
M		<a href="#">Talpa europaea</a>						P						X

- **Group:** A = Amphibians, B = Birds, F = Fish, Fu = Fungi, I = Invertebrates, L = Lichens, M = Mammals, P = Plants, R = Reptiles
- **CODE:** for Birds, Annex IV and V species the code as provided in the reference portal should be used in addition to the scientific name
- **S:** in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes
- **NP:** in case that a species is no longer present in the site enter: x (optional)
- **Unit:** i = individuals, p = pairs or other units according to the standard list of population units and codes in accordance with Article 12 and 17 reporting, (see [reference portal](#))
- **Cat.:** Abundance categories: C = common, R = rare, V = very rare, P = present
- **Motivation categories:** IV, V: Annex Species (Habitats Directive), A: National Red List data; B: Endemics; C: International Conventions; D: other reasons

## 4. SITE DESCRIPTION

Habitat class	% Cover
N23	2.0
N12	15.0
N09	5.0
N08	8.0
N10	5.0
N17	2.0
N20	2.0
N16	48.0
N15	3.0
N02	10.0
Total Habitat Cover	100

Other Site Characteristics

L'area comprende un bacino artificiale e lungo il corso del F. Arno, in parte occupato da formazioni naturali di vegetazione riparia a cannuccia di palude e salici arborei e arbustivi.

4.2 Quality and importance

L'area riveste una notevole importanza quale sito di sosta, svernamento e nidificazione per uccelli acquatici. Da segnalare la presenza del Canis lupus.

4.3 Threats, pressures and activities with impacts on the site

The most important impacts and activities with high effect on the site

Negative Impacts			
Rank	Threats and pressures [code]	Pollution (optional) [code]	inside/outside [i o b]
L	A07		I
H	F02.03		B
M	H01		I
H	C01.01.01		B
H	J02.06		B
L	A08		I

Rank: H = high, M = medium, L = low  
Pollution: N = Nitrogen input, P = Phosphor/Phosphate input, A = Acid input/acidification, T = toxic inorganic chemicals, O = toxic organic chemicals, X = Mixed pollutions  
i = inside, o = outside, b = both

Positive Impacts			
Rank	Activities, management [code]	Pollution (optional) [code]	inside /outside [i o b]
	X		

4.4 Ownership (optional)

Type		[%]
Public	National/Federal	0
	State/Province	0
	Local/Municipal	0
	Any Public	0
Joint or Co-Ownership		0
Private		100
Unknown		0
sum		100

4.5 Documentation

Centro Naturalistico Europeo. - L'analisi faunistica (pp. 38-52)., 1994, In: ENEL - Dir. prod. e trasmissione e direzione per la realizzazione correnti ed Istituzioni & Pent, Penta, ROMA.Viciani D. & Raffaelli M., 2003 - Contributo alla conoscenza di flora evegetazione spontanea delle Riserve Naturali di Valle dell'Inferno-Bandella e Ponte a Buriano-Penna (Arezzo, Toscana).Parlatorea 6: 131-162.Lastrucci L., Paci F., Raffaelli M., 2010 - The wetland vegetation of the Natural Reserves and neighbouring stretches of the Arno river in the Arezzo province (Tuscany, Central Italy). Fitosociologia 47(1): 29-59.Lastrucci L. & Raffaelli M., 2006. Contributo alla conoscenza della flora delle zone umide planiziarie e collinari della Toscana orientale:la provincia di Arezzo (Italia centrale). Webbia 61(2): 271-304.DREAM Italia Soc. Coop. Agr.For.- Studio di screening per l'inserimento nel PAERP di una cava in loc. "Casa S.Martino" - 2008Mammiferi:Museo di Storia Naturale dell'Universita' di Firenze, Sezione di Zoologia "La Specola"Crostacei:Comunicazione personale Gherardi F.Uccelli:G.Tellini Florenzano, T. Campedelli, S.Cutini, G.Londi - Indagini conoscitive e studi tecnici coordinati e condotti nel settore ornitologico dalla DREAM Italia Soc.Coop. a r.l. nel territorio della Provincia di Arezzo nel periodo 2000-2011. I dati sono anche integrati dal contributo di volontari (C. Donati, L. Lapini, G. Grazzini), raccolti e validati sempre dal suddetto gruppo di lavoro.Pesci:Nocita A., 2012 - Indagine relativa ad alcune specie appartenenti alla fauna ittica d'acqua dolce: analisi della presenza e consistenza di Lampetra fluviatilis, Alosa fallax, Leuciscus lucumonis, Barbus plebejus, Barbus tyberinus, con particolare riferimento al Bacino dell'Arno. Museo di Storia Naturale dell'Università di Firenze. Inedito

5. SITE PROTECTION STATUS (optional)

5.1 Designation types at national and regional level:

Code	Cover [%]	Code	Cover [%]	Code	Cover [%]
IT11	100.0	IT05	100.0	IT07	100.0

5.2 Relation of the described site with other sites:

5.3 Site designation (optional)

6. SITE MANAGEMENT

6.1 Body(ies) responsible for the site management:

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Organisation:	Regione Toscana
Address:	Via di Novoli, 26 - 50127 Firenze
Email:	parchiareeprotette_biodiversita@regione.toscana.it

6.2 Management Plan(s):

An actual management plan does exist:

<input type="checkbox"/>	Yes
<input type="checkbox"/>	No, but in preparation
<input checked="" type="checkbox"/>	No

6.3 Conservation measures (optional)

7. MAP OF THE SITES

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INSPIRE ID:	
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Map delivered as PDF in electronic format (optional)

<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
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Reference(s) to the original map used for the digitalisation of the electronic boundaries (optional).

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