



# Ramsar Information Sheet

Published on 25 November 2015

Update version, previously published on 1 January 2007

## Hungary

### Lake Fertő



Designation date	17 March 1989
Site number	420
Coordinates	47°40'43"N 16°44'16"E
Area	8 432,00 ha

## Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

## 1 - Summary

### Summary

Lake Fertő is the westernmost shallow, alkaline steppe lake in Europe in the state of advanced eutrophication. Reedbeds and undisturbed bays of the open water provide an extraordinarily important nesting place and stopover site for migratory bird species.

Approximately three-quarters of the lake belong to Austria, and one quarter to Hungary.

## 2 - Data & location

### 2.1 - Formal data

#### 2.1.1 - Name and address of the compiler of this RIS

##### Compiler 1

Name	Attila Pellingner & Dr. András Ambrus
Institution/agency	Fertő-Hanság National Park Directorate
Postal address	H-9435 Sarród Rév, Kócsagvár
E-mail	ambrus.andras@gmail.com
Phone	+36 99 537 620

#### 2.1.2 - Period of collection of data and information used to compile the RIS

From year	2015
To year	2015

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Lake Fertő
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#### 2.1.4 - Changes to the boundaries and area of the Site since its designation or earlier update

(Update) A. Changes to Site boundary	Yes <input checked="" type="radio"/> No <input type="radio"/>
(Update) The boundary has been delineated more accurately	<input checked="" type="checkbox"/>
(Update) B. Changes to Site area	No change to area

#### 2.1.5 - Changes to the ecological character of the Site

(Update) 6b i. Has the ecological character of the Ramsar Site (including applicable Criteria) changed since the previous RIS?	No <input type="radio"/>
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## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<1 file(s) uploaded>

#### Boundaries description (optional)

The boundary follows the shoreline of the Lake Fertő (Lake Neusiedl in Austria), as the description of the 2006 version of the RIS correctly stated. The site boundary has not been changed, but the old map contained, incorrectly, also those parts of the Lake Fertő unit of the Fertő-Hanság National Park, which are not wetlands and never formed part of the Ramsar site.

### 2.2.2 - General location

a) In which large administrative region does the site lie?	Győr-Moson-Sopron county
b) What is the nearest town or population centre?	East from Sopron town, between Hungary and Austria.

### 2.2.3 - For wetlands on national boundaries only

- a) Does the wetland extend onto the territory of one or more other countries? Yes  No
- b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party? Yes  No

### 2.2.4 - Area of the Site

Official area, in hectares (ha):	8432
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Area, in hectares (ha) as calculated from GIS boundaries 8436.26

### 2.2.5 - Biogeography

#### Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	Pannonic

#### Other biogeographic regionalisation scheme

European Commission DG Environment webpage  
[http://ec.europa.eu/environment/nature/natura2000/sites\\_hab/biogeog\\_regions/index\\_en.htm](http://ec.europa.eu/environment/nature/natura2000/sites_hab/biogeog_regions/index_en.htm)

### 3 - Why is the Site important?

#### 3.1 - Ramsar Criteria and their justification

- Criterion 1: Representative, rare or unique natural or near-natural wetland types

Other reasons

As the second largest lake in Hungary and fifth largest in Europe, the transboundary and highly intact wetland of Lake Fertő provides a wide range of natural habitats within a narrow strip of 50 km from mountain ranges of the Alps to plains of the Kisalföld.

For a list of the habitat types present in the Site listed in Annex I of the EU Habitats Directive, please refer to Section 3.4 Ecological communities whose presence relates to the international importance of the site.

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification

Lake Fertő is the westernmost site of the continental alkaline temporary wetlands, with numerous species whose westernmost occurrence is here. Also, like other inland saline lakes in the Carpathian Basin, it holds numerous species whose occurrence outside the Carpathian Basin is only coastal. Four endemic or subendemic plant species/subspecies occur: Suaeda maritime ssp. pannonica, Puccinellia peisonis (also described as Puccinellia festuciformis ssp. intermedia), Aster tripolum ssp. pannonicus, Cirsium brachycephalum. Endemic invertebrates supported by the site are Rotatoria fertőiensis and Lepidocyrtus peisonis.

- Criterion 4 : Support during critical life cycle stage or in adverse conditions

- Criterion 5 : >20,000 waterbirds

Overall waterbird numbers

108700







Start year

2009

Source of data:

Please refer to the document in Additional material > i. taxonomic lists of plant and animal species occurring in the site.



















#### 3.2 - Plant species whose presence relates to the international importance of the site

Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<i>Cirsium brachycephalum</i> 	Small-flowered Thistle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Annex II of the EU Habitat Directive	Four endemic or subendemic plant species/subspecies occur on the Site including <i>Cirsium brachycephalum</i> .
<i>Ophrys sphegodes</i> 	Early Spider Orchid	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NT 	<input type="checkbox"/>	EU – CITES Annex B. II	
<i>Puccinellia intermedia</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		Four endemic or subendemic plant species/subspecies occur on the Site including <i>Puccinellia peisonis</i> (also described as <i>Puccinellia festuciformis</i> ssp. <i>intermedia</i> ).
<i>Suaeda maritima perennans</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		Four endemic or subendemic plant species/subspecies occur on the Site including <i>Suaeda maritima</i> ssp. <i>pannonica</i> .
<i>Tripolium pannonicum</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		Four endemic or subendemic plant species/subspecies occur on the Site including <i>Aster tripolium</i> ssp. <i>pannonicus</i> .













Other noteworthy flora:

*Matricaria chamomilla*

### 3.3 - Animal species whose presence relates to the international importance of the site

Phylum	Scientific name	Common name	Species qualifies under criterion			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7								
CHORDATA/ AVES	<i>Acrocephalus melanopogon</i> 	Moustached Warbler	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/ AVES	<i>Anas clypeata</i> 	Northern Shoveler	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5000			LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding species. For Criterion 4, please see text box below.
CHORDATA/ AVES	<i>Anas crecca</i> 	Eurasian Teal; Green-winged Teal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12000			LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding species. For Criterion 4, please see text box below.
CHORDATA/ AVES	<i>Anas platyrhynchos</i> 	Mallard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10000			LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding species. For Criterion 4, please see text box below.
CHORDATA/ AVES	<i>Anas strepera</i> 	Gadwall	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1500			LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding species. For Criterion 4, please see text box below.
CHORDATA/ AVES	<i>Anser albifrons</i> 	Greater White-fronted Goose	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	40000			LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Important staging and wintering bird species. For Criterion 4, please see text box below.
CHORDATA/ AVES	<i>Anser anser</i> 	Western Greylag Goose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20000			LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding species. For Criterion 4, please see text box below.
CHORDATA/ AVES	<i>Anser erythropus</i> 	Lesser White-fronted Goose	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive.	Important staging and wintering bird species. For Criterion 4, please see text box below.
CHORDATA/ AVES	<i>Anser fabalis</i> 	Bean Goose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4000			LC 	<input type="checkbox"/>	<input type="checkbox"/>		Important staging and wintering bird species. For Criterion 4, please see text box below.

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
CHORDATA/AVES	<i>Ardea alba</i>	Great Egret	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Important staging and wintering bird species. For Criterion 4, please see text box below.
CHORDATA/AVES	<i>Ardea purpurea</i>	Purple Heron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/AVES	<i>Aythya nyroca</i>	Ferruginous Duck	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/AMPHIBIA	<i>Bombina bombina</i>	European Fire-bellied Toad	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitat Directive	
CHORDATA/AVES	<i>Botaurus stellaris</i>	Eurasian Bittern	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/AVES	<i>Branta ruficollis</i>	Red-breasted Goose	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				EN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive.	Important staging and wintering bird species. For Criterion 4, please see text box below.
CHORDATA/AVES	<i>Charadrius alexandrinus</i>	Kentish Plover; Snowy Plover	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/AVES	<i>Ciconia nigra</i>	Black Stork	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/AVES	<i>Circus aeruginosus</i>	Western Marsh Harrier	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
ARTHROPODA/INSECTA	<i>Coenagrion ornatum</i>	Omate Bluet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitat Directive	
CHORDATA/AVES	<i>Egretta garzetta</i>	Little Egret	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/AVES	<i>Falco cherrug</i>	Saker Falcon	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				EN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/AVES	<i>Haliaeetus albicilla</i>	White-tailed Eagle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/AVES	<i>Himantopus himantopus</i>	Black-winged Stilt	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/AVES	<i>Ichthyaeetus melanocephalus</i>	Mediterranean Gull	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/AVES	<i>Ixobrychus minutus</i>	Little Bittern	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/ACTINOPTERYGII	<i>Leuciscus aspius</i>	Asp	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitat Directive	
ARTHROPODA/INSECTA	<i>Leucorhina pectoralis</i>	Yellow-Spotted Whiteface	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitat Directive	
CHORDATA/AVES	<i>Luscinia svecica</i>	Bluethroat	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
ARTHROPODA/INSECTA	<i>Lycaena dispar</i>	Large Copper	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitat Directive	
ARTHROPODA/INSECTA	<i>Maculinea nausithous</i>	Dusky Large Blue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitat Directive	

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
ARTHROPODA/ INSECTA	 <i>Maculinea teleius</i>	Scarce Large Blue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitat Directive	
CHORDATA/ ACTINOPTERYGII	 <i>Misgurnus fossilis</i>	Weatherfish	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitat Directive	
CHORDATA/ AVES	 <i>Netta rufina</i>	Red-crested Pochard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2200			LC	<input type="checkbox"/>	<input type="checkbox"/>		Breeding species. For Criterion 4, please see text box below.
ARTHROPODA/ INSECTA	 <i>Parnassius mnemosyne</i>	Clouded Apollo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex IV of the EU Habitat Directive	
CHORDATA/ ACTINOPTERYGII	 <i>Pelecus cultratus</i>	Knife	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitat Directive	
CHORDATA/ AVES	 <i>Philomachus pugnax</i>	Ruff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7000			LC	<input type="checkbox"/>	<input type="checkbox"/>		Important staging and wintering bird species. For Criterion 4, please see text box below.
CHORDATA/ AVES	 <i>Platalea leucorodia</i>	Eurasian Spoonbill	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/ AVES	 <i>Recurvirostra avosetta</i>	Pied Avocet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive.	Breeding species. For Criterion 4, please see text box below.
CHORDATA/ ACTINOPTERYGII	 <i>Rhodeus amarus</i>	European bitterling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitat Directive	
CHORDATA/ MAMMALIA	 <i>Spermophilus citellus</i>	European Ground Squirrel;European Souslik	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitat Directive	
CHORDATA/ AMPHIBIA	 <i>Triturus cristatus</i>	Northern crested newt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Triturus cristatus or dobrogicus - Annex II of the EU Habitat Directive	
CHORDATA/ AVES	 <i>Vanellus vanellus</i>	Northern Lapwing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7000			LC	<input type="checkbox"/>	<input type="checkbox"/>		Breeding species. For Criterion 4, please see text box below.



## Criterion 3:

Species listed under Criterion 3 which have not yet been assessed for the IUCN Red List and are not in the Catalogue of Life:

- Endemic invertebrates supported by the site are *Rotatoria fertőiensis* and *Lepidocyrtus peisonis*.

## Criterion 4:

The water body of Lake Fertő dries up only once in a hundred years and provides refuge area for aquatic and semi-aquatic species and communities in a dry season and dry period.

## Criterion 5:

Numbers of migratory waterfowl at the same time often reach or even exceed 20,000.

Estimated numbers of waterfowl species during the whole migration season, calculating turnover.

## Bibliographical references:

Faragó, Sándor (2012): A vadlúd monitoring eredményei a 2011/2012-es idényben Magyarországon, In: Magyar Vízi vad Közlemények (Hungarian Waterfowl Publications), No. 22, pp. 3-50

Faragó, Sándor (2012): A magyar vízi vad monitoring eredményei a 2011/2012-es idényben, In: Magyar Vízi vad Közlemények (Hungarian Waterfowl Publications), No. 22, pp. 51-284

Faragó, Sándor (2011): A vadlúd monitoring eredményei a 2009/2010-es idényben Magyarországon, In: Magyar Vízi vad Közlemények (Hungarian Waterfowl Publications), No. 20-21, pp. 3-42

Faragó, Sándor (2011): A magyar vízi vad monitoring eredményei a 2009/2010-es idényben, In: Magyar Vízi vad Közlemények (Hungarian Waterfowl Publications), No. 20-21, pp. 43-200

## 3.4 - Ecological communities whose presence relates to the international importance of the site

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
1530: Pannonic salt steppes and salt marshes	<input type="checkbox"/>		Habitat type listed in Annex I EU Habitats Directive
6410: Mlínia meadows on calcareous, peaty clayey-silt-laden soils (Mlínion caeruleae)	<input type="checkbox"/>		Habitat type listed in Annex I EU Habitats Directive
6510: Lowland hay meadows ( <i>Alopecurus pratensis</i> , <i>Sanguisorba officinalis</i> )	<input type="checkbox"/>		Habitat type listed in Annex I EU Habitats Directive
7210: Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i>	<input type="checkbox"/>		Habitat type listed in Annex I EU Habitats Directive
6240: Sub-Pannonic steppic grasslands	<input type="checkbox"/>		Habitat type listed in Annex I EU Habitats Directive
3150: Natural eutropic lakes with Magnopotamion or Hydrocharition – type vegetation	<input type="checkbox"/>		Habitat type listed in Annex I EU Habitats Directive
3160: Natural dystrophic lakes and ponds	<input type="checkbox"/>		Habitat type listed in Annex I EU Habitats Directive

## 4 - What is the Site like? (Ecological character description)

### 4.1 - Ecological character

Three-quarters of the Hungarian part of the lake are covered by a reedbelt with wedged in small inner lakes. There is a narrow alkaline steppe stripe on the southern and south-eastern part of the area which was extended as a result of former drainage of the basins. Marshy meadows are also present.

Important plant associations are as follows:

Lemno-Utricularietum  
Hydrochari-Stratiotetum  
Carici flavi-Eriophoretum  
Schoenetum nigricantis  
Juncetum subnodulosi  
Seslerietum uliginosae  
Puccinellietum peisonis  
Juncetum gerardi  
Agrosti-Alopecuretum pratensis

Animal communities are related to the open waters, Phragmites dominated area, littoral zone, wet meadows around the lake, alkaline small temporary wetlands, alkaline grasslands, marshland vegetation containing *Sanguisorba officinalis* and *Maculinea teleius* & *M. nausithous* butterflies. Around the lake (surrounding the Ramsar site) there are mainly limestone characterized forests, supporting animal communities typical on the xerotherm woodlands (containing *Quercus cerris* and *Q. pubescens*) and grasslands, locally extremely rich in Orchids.

### 4.2 - What wetland type(s) are in the site?

#### Inland wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Saline, brackish or alkaline water > Lakes >> Q: Permanent saline/brackish/alkaline lakes		1		Unique
Saline, brackish or alkaline water > Marshes & pools >> Ss: Seasonal/intermittent saline/brackish/alkaline marshes/pools		2		
Fresh water > Marshes on inorganic soils >> W: Shrub-dominated wetlands		3		

#### Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
9: Canals and drainage channels or ditches		4		

### 4.3 - Biological components

#### 4.3.1 - Plant species

##### Other noteworthy plant species

Scientific name	Common name	Position in range / endemism / other
<i>Bolboschoenus maritimus</i>		
<i>Cyperus aculeata</i>		
<i>Festuca pulchra</i>		
<i>Hordeum marinum gussoneanum</i>		
<i>Juncus gerardi</i>	saltmarsh rush; saltmeadow rush	
<i>Pholurus pannonicus</i>		
<i>Plantago maritima</i>		
<i>Plantago tenuiflora</i>		
<i>Puccinellia distans</i>		
<i>Salicornia europaea</i>		
<i>Salsola soda</i>		
<i>Scorzonera parviflora</i>		
<i>Suaeda pannonica</i>		

#### 4.3.2 - Animal species

##### Other noteworthy animal species

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	%occurrence	Position in range / endemism/other
ARTHROPODA/ARACHNIDA	<i>Lycosa singoriensis</i>					

### 4.4 - Physical components

#### 4.4.1 - Climate

Climatic region	Subregion
D: Moist Mid-Latitude climate with cold winters	Dfa: Humid continental (Humid with severe winter, no dry season, hot summer)

Climate of this area is rather complex due to several climate types in the region. In general it can be classified as wet continental. For more information on the climate, please refer to Section 6.1.2 Additional material > vi. other published literature.

4.4.2 - Geomorphic setting

a) Minimum elevation above sea level (in metres)

Middle part of river basin

Please name the river basin or basins. If the site lies in a sub-basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.

The catchment of the lake is almost 4 times larger than the lake itself, covering 1116 km2.

4.4.3 - Soil

Mineral

Organic

Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)? Yes  No

Please provide further information on the soil (optional):

Site: Higher elevations are covered by loess. On the eastern part of the site alkaline soils can be found. Soils associated with lacustrine and riverine systems are also present.  
 Catchment area: The surrounding hills are covered by rendzina soils. The adjoining lowlands are characterized partly with alkaline, partly with meadow type soils and locally peat.

4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually permanent water present	

Please add any comments on the water regime and its determinants (if relevant). Use this box to explain sites with complex hydrology.

Catchment area of Lake Fertő was always smaller than that of the Hanság basin, therefore less water was gathered in the lake resulting in an unpredictable water regime. The lake dried up relatively frequently in every 400-500 years during prehistoric times, consequently its salt content increased gradually. This process was also indicated by the encroachment of reed beds. In order to drain the Lake Fertő and Hanság region a canal was built in 1908 that resulted in even more unpredictability in water regime. The water level has been stabilised since 1965 that stopped the expansion of reed. Water level fluctuates annually. It increases in winter with 25-30 cm and decreases in summer with 10-50 cm. Temperature of the water varies according to seasons, in summer it may reach 29 degrees Centigrade. Days with ice cover are 42 in average; the width of ice cover might be 40-50 cm. The only natural watercourse on the surface is the streamlet Rákos, which has a mean water supply of 0.059 m3/s.

4.4.5 - Sediment regime

Please provide further information on sediment (optional):

The lake has an important role in sediment trapping: the amount of matter getting into the lake is estimated at 200 000 m3/year: 20 000 m3 from erosion, 60 000 m3 from atmospheric dust and 120 000 m3 from decaying aquatic vegetation.

4.4.6 - Water pH

Alkaline (pH>7.4)

4.4.7 - Water salinity

Mxohaline (brackish)/Mxosaline (0.5-30 g/l)

Euhaline/Eusaline (30-40 g/l)

4.4.8 - Dissolved or suspended nutrients in water

Eutrophic

Please provide further information on dissolved or suspended nutrients (optional):

Water in Lake Fertő is characterised by a high organic matter (humic acids) and salt content with relatively low nutrient content suitable for aquatic plants. The lake is in an advanced stage of eutrophication and sedimentation. There is no significant human activity that may pollute the lake seriously; even fertilisers and chemicals are not carried to the lake through drainage canals. Water purification stations have been built at villages that are close to the Lake.

4.4.9 - Features of the surrounding area which may affect the Site

Please describe whether, and if so how, the landscape and ecological characteristics in the area surrounding the Ramsar Site differ from the i) broadly similar  ii) significantly different  site itself.

Please describe other ways in which the surrounding area is different:

Current land use in the surroundings/catchment:  
Forestry, ploughlands, hay production, other agricultural activities.

On the surrounding hills and at their feet traditional vineyards dominate. On the lowland grasslands are dominant near the lake. Further, where the conditions are set, crop production (mainly corn, wheat, sunflower) is present. The top of the hills and non-cultivated areas are covered with forests.

On the western side the lake is surrounded by a row of Lajta limestone hills whereas on the eastern side lowlands follow with high groundwater level.

## 4.5 - Ecosystem services

### 4.5.1 - Ecosystem services/benefits

#### Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Food for humans	Sustenance for humans (e.g., fish, molluscs, grains)	Medium
Wetland non-food products	Reeds and fibre	Medium

#### Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Maintenance of hydrological regimes	Groundwater recharge and discharge	
Climate regulation	Local climate regulation/buffering of change	High

#### Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Spiritual and inspirational	Cultural heritage (historical and archaeological)	
Spiritual and inspirational	Aesthetic and sense of place values	

#### Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganisms, the genes they contain, and the ecosystems of which they form a part	Medium

#### Other ecosystem service(s) not included above:

Limited fishery and reed harvesting are permitted in harmony with the purposes of nature conservation. Grasslands are managed by the NP Directorate. No hunting activities are permitted on the Ramsar Site.

One of the main characteristics of the hydrology of Lake Fertő is the variability of its chemical contents, water depth and currents. This variability creates diverse habitats and is thus the basis of species diversity.

The lake is also renowned for its climate modification effects (milder winters, higher amount of rainfall), creating good conditions, for example, for wine-growing.

Please refer to Additional material > vi. other published literature, for more information on social and cultural values related to the spiritual and inspirational value of the Site.

Within the site: 150000

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site? Yes  No  Unknown

### 4.5.2 - Social and cultural values

i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and  use that maintain the ecological character of the wetland

#### Description if applicable

Today, the fishery and the reed management of the lake is controlled by the National Park Directorate. Local fishermen use traditional methods and devices for catching fish on a small scale basis. The reed is harvested on designated areas by one company. The surrounding areas are grasslands, owned and managed by the National Park Directorate.

## 4.6 - Ecological processes

<no data available>

## 5 - How is the Site managed? (Conservation and management)

### 5.1 - Land tenure and responsibilities (Managers)

#### 5.1.1 - Land tenure/ownership

##### Public ownership

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Local authority, municipality, (sub)district, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

##### Private ownership

Category	Within the Ramsar Site	In the surrounding area
Cooperative/collective (e.g., farmers cooperative)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other types of private/individual owner(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Provide further information on the land tenure / ownership regime (optional):

a) within the Ramsar site: Fertő-Hanság National Park Directorate 3,379 ha, local government 3.5 ha, forestry 10 ha, water management directorate 4,817 ha, cooperatives 224 ha

b) in the surrounding area: cooperative farms or privately owned  
Fertő-Hanság National Park Directorate 3,379 ha, local government 3.5 ha, forestry 10 ha, water management directorate 4,817 ha, cooperatives 224 ha

#### 5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for managing the site:

Fertő-Hanság National Park Directorate

Postal address:

9435 Sarród, Rév-Kócsagvár, Hungary

Tel.: +36 99 537 620, fax: +36 99 537 621

E-mail address:

Ambrus.andras@gmail.com

## 5.2 - Ecological character threats and responses (Management)

### 5.2.1 - Factors (actual or likely) adversely affecting the Site's ecological character

#### Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Non specified		Medium impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

#### Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Recreational and tourism activities	Medium impact		<input checked="" type="checkbox"/>	decrease	<input type="checkbox"/>	No change

#### Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Dams and water management/use			<input checked="" type="checkbox"/>		<input type="checkbox"/>	

Please describe any other threats (optional):

Within the Ramsar Site: The tourism had some pressure on the wetland, but now a recently developed nature trail and new watchtowers concentrate tourists in less sensitive parts of the area.

In the surrounding area: Intensive agricultural activities may have adverse impact on the wetland in the future.

#### 5.2.2 - Legal conservation status

##### Global legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
World Heritage site	Fertő-táj World Heritage		whole
UNESCO Biosphere Reserve	Lake Fertő Biosphere Reserve		whole

Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	Fertő tó		whole

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
national park	Fertő-Hanság National Park		whole

5.2.3 - IUCN protected areas categories (2008)

II National Park: protected area managed mainly for ecosystem protection and recreation

5.2.4 - Key conservation measures

Habitat

Measures	Status
Hydrology management/restoration	Proposed

Human Activities

Measures	Status
Livestock management/exclusion (excluding fisheries)	Implemented

Other:

Current management practices:  
 Grasslands and reedbeds are managed in harmony with purposes of nature conservation. Traditional grazing has been used for 5 years on most of the grasslands.

Conservation measures proposed but not yet implemented:  
 Restoration of previous water regime of the Lake Fertő.  
 Improving the water exchange within the reedbelt to stop the thinning of the reed.

Management plan: A detailed management plan has been prepared in 1996, but it has not yet been officially approved according to recent legislative requirements. New one is under process.

5.2.5 - Management planning

Is there a site-specific management plan for the site? In preparation

Has a management effectiveness assessment been undertaken for the site? Yes  No

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning processes with another Contracting Party? Yes  No

Please indicate if a Ramsar centre, other educational or visitor facility, or an educational or visitor programme is associated with the site:

A nature conservation study centre is managed by the Fertő-Hanság National Park Directorate within the centre of the Directorate. The creation of a dedicated education centre in Fertőújlak has been accomplished. Another visitors centre in Lászlómajor has been built and is hosting exhibitions and events about the traditional land use and nature conservation.

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Please select a value

5.2.7 - Monitoring implemented or proposed

Universities of Sopron, Mosonmagyaróvár, Budapest and Keszthely along with Hungarian Academy of Sciences have carried out various research programmes. Hydrobiological and environmental institutes are located in settlements around the lake.

Vegetation mapping and zoological monitoring of reedbeds as well as that of the invertebrate fauna are under way. The site is also a sample site of the Hungarian National Biodiversity Monitoring Project.

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

- Aujeszký,L., Schilling,F. & Somogyi,S.(1974)(eds.): Természeti adottságok. A Fertő-táj geoszféraja. A Fertő-táj Monográfiáját előkészítő adatgyűjtemény. Vol. 1. Fertő-táj Bizottság, Bp. 254 pages.
- Aujeszký,L., Schilling,F. & Somogyi,S.(1976): Alkalmazott kutatások: a Fertő-táj bioszféra-készleteinek hasznosítása. A Fertő-táj monográfiáját előkészítő adatgyűjtemény. Vol. 4. Fertő-táj Bizottság, Bp. 175 pages.
- Faragó,S.(1992): A Fertő-Hanság-Szigetköz vízrendszer vadlúdjai ökológiai vizsgálata. Kutatási jelentés, :44 p.
- Faragó,S.(1993b): Vadlúd állományvizsgálatok 10 éves eredményei a Fertő-tó magyar területén: 1983-1993. Áll.Közl., 79:37-47.
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- Jánoska,F.(1992): Fertő-Hanság-Szigetköz térségében kisméltós-faunisztikai és ökológiai vizsgálatok. Kutatási jelentés, :14 p.
- Kárpáti L.(1983): A Fertő-táj madárvilágának ökológiai vizsgálata. Erd.Faip.Tud.Közl.1982.1:111-203.
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- Márkus,I.(1995): Fertő-tavi Nemzeti Park Biotóp Térkép. EFE Sopron. 1:12500. Map 19. Scale 1:12500.
- Rakonczay Z.(1996): Szigetköztől az Őrségig. A Nyugat-Dunántúl védett természeti értékei. Mezőgazda Kiadó Bp.
- Seregélyes T.(1997): A Fertő-Hanság Nemzeti Park kezelési terve. Kézirat.
- Tardy, J. (2007): A magyarországi vadvízek világa. Pécsi Direkt Kft. Alexandra Kiadója, 2007. 416 p.

#### 6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

<1 file(s) uploaded>

ii. a detailed Ecological Character Description (ECD) (in a national format)

<no file available>

iii. a description of the site in a national or regional wetland inventory

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<no file available>

vi. other published literature

<1 file(s) uploaded>

#### 6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Aerial view of Fertőrákos Bay at Lake Fertő ( Mr. Attila Pellingner, 03-06-2015 )

#### 6.1.4 - Designation letter and related data

Designation letter

<no file available>

Date of Designation