

Information Sheet on Ramsar Wetlands

Categories approved by Recommendation 4.7 of the Conference of the Contracting Parties.

NOTE: It is important that you read the accompanying *Explanatory Note and Guidelines* document before completing this form.

1. Date this sheet was completed/updated:

12-09-2002

FOR OFFICE USE ONLY.

DD	MM	YY

Designation date

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Site Reference Number

2. Country:

the Netherlands

3. Name of wetland: Broekvelden/Vettenbroek

4. Geographical coordinates: 52°03'N - 04°47'E

5. Altitude: (average and/or max. & min.) NAP -5 - -1 m

6. Area: (in hectares) 700

7. Overview: (general summary, in two or three sentences, of the wetland's principal characteristics)

A complex of shallow lakes (criss-crossed by strips of land), reed margins, wet meadows and improved grassland, located northeast of the city of Gouda.

8. Wetland Type (please circle the applicable codes for wetland types as listed in Annex I of the *Explanatory Note and Guidelines* document.)

marine-coastal: A . B . C . D . E . F . G . H . I . J . K

inland: L . M . N . **O** . P . Q . R . Sp . Ss . Tp . Ts
. **U** . Va . Vt . W . Xf . Xp . Y . Zg . Zk

man-made: 1 . 2 . 3 . **4** . 5 . 6 . 7 . 8 . 9

Please now rank these wetland types by listing them from the most to the least dominant: O4U

9. Ramsar Criteria: (please circle the applicable criteria; see point 12, next page.)

1 . 2 . 3 . 4 . **5** . **6** . 7 . 8

Please specify the most significant criterion applicable to the site: 6

10. Map of site included? Please tick *yes* -or- *no*

(Please refer to the *Explanatory Note and Guidelines* document for information regarding desirable map traits).

11. Name and address of the compiler of this form:

National Reference Centre for Agriculture, Nature Management and Fisheries

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12. Justification of the criteria selected under point 9, on previous page. (Please refer to Annex II in the *Explanatory Note and Guidelines* document).

Criterion 5: The site regularly supports more than 20,000 wintering waterbirds: average peak number 22,559 (1991/92-1996/97).

Criterion 6, Average peak numbers of species meeting the 1% threshold (1992/93-1997/98):

Species	Biogeographical population	1% Biogeogr. Population	% at site
<i>Cygnus columbianus</i>	W-Siberia/ NW-Europe	170	1,9%
<i>Anas penelope</i>	W-Siberia/ NW-Europe	12 500	1,9%

13. General location: (include the nearest large town and its administrative region)

Province of Zuid-Holland, northeast of Gouda.

14. Physical features: (e.g. geology, geomorphology; origins - natural or artificial; hydrology; soil type; water quality; water depth
water permanence; fluctuations in water level; tidal variations; catchment area; downstream area; climate)

The current landscape has been formed by reclamations and peat digging. The water of the lakes is slightly brackish. The Reeuwijkse Plassen are eutrophic lakes affected by nutrient pollution.

15. Hydrological values: (groundwater recharge, flood control, sediment trapping, shoreline stabilisation etc)

None

16. Ecological features: (main habitats and vegetation types)

Permanent freshwater lakes 20%, Permanent freshwater marshes 7%, Wet grassland 70%.

17. Noteworthy flora: (indicating, e.g., which species/communities are unique, rare, endangered or biogeographically important, etc)

Plant communities of European interest: *Potametum lucentis*; *Stratiotetum*; *Cicuto-Caricetum pseudocyperi*; *Thelypterido-alnetum*;

Stoneworth species on the Red List: *Tolypella prolifera*; *Chara contraria*;

Mushroom species on the Red List: *Alnicola submelinoides*;

Vascular plants on the Red List: Marsh Lousewort *Pedicularis palustris*.

18. Noteworthy fauna: (indicating, e.g., which species are unique, rare, endangered, abundant or biogeographically important; include count data, etc.)

Note: Species included on Annex II of the EC Habitats Directive and bird species listed on Annex I of the EC Birds Directive have been indicated with an asterisk. In addition to those waterbirds listed under point 12, all waterbirds are mentioned occurring in numbers between 0,1 and 1,0% of their respective biogeographical populations Other non-waterbird species are included on the national Red List for the species group concerned.

Dragonflies: *Aeshna viridis*;

Freshwater molluscs: *Anisus vorticulus*; *Segmentina nitida*; *Gyraulus riparius*;

Freshwater fishes: *Spined Loach *Cobitis taenia*; *Bullhead *Cottus gobio*;

Birds (non-breeding): *Bewick's Swan *Cygnus bewickii*, Eurasian Wigeon *Anas [Mareca] penelope*, Gadwall *Anas strepera*, Northern Shoveler *Anas clypeata*.

19. Social and cultural values: (e.g. fisheries production, forestry, religious importance, archaeological site etc.)

See 21. Current land use.

20. Land tenure/ownership of: (a) site (b) surrounding area

The site is partly owned by Staatsbosbeheer (242 ha); the remainder is in private ownership.

Surrounding area: several private owners.

21. Current land use: (a) site (b) surroundings/catchment

Site: Boating 55%, Tourism and leisure 10%, Residential (conurbation) 4%, Farming 25%, Commercial fisheries 55%, Conservation and research 15%, Water management 100%.

Surroundings/ catchment: agriculture.

22. Factors (past, present or potential) adversely affecting the site's ecological character, including changes in land use and development projects: (a) at the site (b) around the site

Site (A = serious threat covering large part of the area; B = moderate threat or local threat; C = minor threat): Agricultural intensification/expansion (C - land allocation); Recreation/ tourism (B -); Pollution (not Industrial discharge).

Around the site: –

23. Conservation measures taken: (national category and legal status of protected areas - including any boundary changes which have been made: management practices; whether an officially approved management plan exists and whether it has been implemented)

Special Protection Area (Birds Directive 79/409/EEC, 2000, 700 ha); Wetland of International Importance (2/4/2000, 700 ha). The parts of the site owned and managed by the National Forestry Service (SBB) are covered by a management plan.

24. Conservation measures proposed but not yet implemented: (e.g. management plan in preparation; officially proposed as a protected area etc.)

None

25. Current scientific research and facilities: (e.g. details of current projects; existence of field station etc.)

Most research and monitoring is carried out by the Institute for Inland Water Management and Waste Water Treatment (RIZA, www.riza.nl) of the Ministry of Transport, Public works and Watermanagement. The research is organised in four topics: *Wetland development and restoration*: research and advice on the restoration of wetlands to their natural state; *Water systems*: research and advice on the integrated management of inland waters; *Water pollution control*: research and advice on waste water treatment and emission levels; *Information and measurement technology*: collection and processing of data and research in specialist laboratories. Relevant research is also carried out the Institute for River Research, which is part of the Institute for Hydraulic Engineering (IHE, www.ihe.nl) in Delft, and focuses mainly on floodplain research. The Center for Limnology (NIOO-CL, www.nioo.nl) in Nieuwersluis studies plant-bird interactions in several large freshwater lakes as part of general limnological research programmes. Also regular bird counts.

26. Current conservation education: (e.g. visitors centre, hides, information booklet, facilities for school visits etc.)

None

27. Current recreation and tourism: (state if wetland is used for recreation/tourism; indicate type and frequency/intensity)

See 21. Current land use. Number of visitors not known.

28. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept. of Environment etc.)

Municipality Reeuwijk. Functional jurisdiction (conservation purposes): Ministerie van Landbouw, Natuurbeheer en Visserij.

29. Management authority: (name and address of local body directly responsible for managing the wetland)

Staatsbosbeheer, PO Box 1300, 3970 BH Driebergen, the Netherlands, tel. +31 30 6926111

30. Bibliographical references: (scientific/technical only)

- van Gemeren J. 1987. Mens en Natuur in het Reeuwijkse Plassengebied: het leven van de mens met veen en water, vogels en vissen in heden en verleden. Reeuwijk.
- Osieck E.R. & Borggreve C.M. 1999. National Inventory of Ramsar sites in the Netherlands. IKC Natuurbeheer, Wageningen.
- van Roomen M.W.J, Boele A., van der Weide M.J.T., van Winden E.A.J, Zoetebier D. 2000. Belangrijke vogelgebieden in Nederland, 1993-97. Actueel overzicht van Europese vogelwaarden in aangewezen en aan te wijzen speciale beschermingszones en andere belangrijke gebieden. SOVON-informatierapport 2000/01. SOVON Vogelonderzoek Nederland, Beek-Ubbergen.

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