

Ramsar Information Sheet

Published on 27 January 2021 Update version, previously published on : 1 January 2013

BelarusStary Zhaden



Designation date 7 September 2012 Site number 2140 Coordinates 51°54'22"N 27°36'37"E Area 17 048,00 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

The Site "Stary Zhaden" is a wetland complex with dominance of large mire massifs typical for the Belarusian Polesie region. This area is characterized by a combination of fen mires and transitional mires (the latter situated in the core of the reserve) with massifs of old-aged forests that grow on elevations, creating tree islands. Coniferous species are dominant in them.

The territory of the site is located between the rivers Pripyat and its right tributaries Stviga and Ubort'. Directly on the territory of the site, the hydrological network is represented only by drainage canals. The canals are overgrown with aquatic vegetation, and in some places are closed by floating vegetation mats. Numerous beaver dams prevent the water flow from the mires.

The site plays an important role as a "green corridor" between the Ramsar sites National Park Pripyatsky and Olmany Mires Zakaznik. Together these three sites comprise the Biosphere Reserve "Pripyatskoe Polesie".

The wetland contributes to maintaining the groundwater level and water filling of the rivers of the Pripyat River basin. The mire system influences the local climate and water balance, serves as an accumulator of ground and atmospheric water, and prevents the development of erosion processes. It plays a significant role in the global carbon cycle, accumulating a significant amount of it.

2 - Data & location

2.1 - Formal data

Responsible compiler

Institution/agency Institute of Experimental Botany of the National Academy of Science of Belarus

Postal address 220072, Minsk, Akademicheskaya st., 27,

National Ramsar Administrative Authority

Institution/agency Institute of Experimental Botany of the National Academy of Science of Belarus

220072, Minsk, Akademicheskaya st., 27

Postal address

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

From year 2012

To year 2020

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)

Stary Zhaden

Unofficial name (optional)

Старый Жаден

2.1.4 - Changes to the boundaries and area of the Site since its designation or earlier update

e-mail: bronibroska@mail.ru

(Update) A Changes to Site boundary Yes O No

(Update) B. Changes to Site area No change to area

(Update) For secretariat only. This update is an extension □

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?

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded>

Former maps 0

Boundaries description

The boundaries of the Ramsar site coincide with those of the national hydrological reserve "Stary Zhaden". For more information, see Additional materials.

2.2.2 - General location

a) In which large administrative region does the site lie?

Gomel region, Zhitkovichi and Lelchitsy districts

b) What is the nearest town or population centre?

Turov

2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries?

b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party?

2.2.4 - Area of the Site

Official area, in hectares (ha): 17048

Area, in hectares (ha) as calculated from 17061.208

GIS boundaries

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	Continental

Other biogeographic regionalisation scheme

The Pan European Map of Biogeographical Regions 2001(T-PVS 2001/89 Appendix V)

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

The site is an example of a representative wetland system of the continental biogeographic region, which is predominantly in its natural state. It is also a typical wetland of the Polesie region.

The site has a great hydrological importance to adjacent areas:

- Hydrological services provided it has a significant importance for natural functioning of the river Pripyat basin;
 - serves as an accumulator of ground and atmospheric water;
 - maintains the level of groundwater;
 - plays an important role in maintaining high water quality.

The mire system influences the formation of the local climate, prevents the development of erosion processes. It plays a significant role in the global carbon cycle, accumulating a significant amount of it. Collecting of berries (blueberries, cranberries) within the wetland is an important source of income for the Other ecosystem services provided local population. Within the wetland harvesting of biological resources carries out in the following ways:

- harvesting of fruit, berries (blueberry, cranberry, raspberry) and mushrooms
- harvesting of officinal and technical plants
- commercial beekeeping.

The site plays an important role as a "green corridor" between the Ramsar sites Pripyatsky National Park Other reasons and Olmany Mires Zakaznik. Together these three sites comprise the Biosphere Reserve "Pripyatskoe Polesie".

Criterion 2 : Rare species and threatened ecological communities

☑ Criterion 3 : Biological diversity

The wetland supports populations of plant and animal species that are important for the conservation of biological diversity of fauna and flora of mires affected by significant drainage reclamation. The wetland contains the range of biological diversity (including habitat types) typical of the Polesie region and supports particular elements of biological diversity that are rare and characteristic of the continental biogeographic region.

Justification

The site's flora includes 563 species of higher vascular plants. The site's fauna of vertebrates is represented by 12 fish species, 4 amphibian species, 5 reptile species, 104 bird species and 20 mammal species.

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

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

Phylum	Scientific name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
Plantae								
TRACHEOPHYTA/ LILIOPSIDA	Carex elata		✓		LC			
TRACHEOPHYTA/ LILIOPSIDA	Carex lasiocarpa		✓		LC			
TRACHEOPHYTA/ LILIOPSIDA	Eriophorum gracile	/	✓				National Red Data Book - Vulnerable	
TRACHEOPHYTA/ LILIOPSIDA	Glyceria fluitans		✓		LC			
TRACHEOPHYTA/ LILIOPSIDA	Koeleria pyramidata pyramidata		✓					
TRACHEOPHYTA/ MAGNOLIOPSIDA	Pulsatilla pratensis		✓				National Red Data Book - Near Threatened	
TRACHEOPHYTA/ MAGNOLIOPSIDA	Rhododendron luteum	2	✓				National Red Data Book - Vulnerable	
TRACHEOPHYTA/ MAGNOLIOPSIDA	Salix lapponum		✓				National Red Data Book - Near Threatened	
TRACHEOPHYTA/ MAGNOLIOPSIDA	Salix myrtilloides	2	✓				National Red Data Book - Vulnerable	
TRACHEOPHYTA/ MAGNOLIOPSIDA	Utricularia intermedia		✓		LC			need of preventive protection
TRACHEOPHYTA/ MAGNOLIOPSIDA	Utricularia minor		✓		LC			need of preventive protection
TRACHEOPHYTA/ MAGNOLIOPSIDA	Vaccinium microcarpum	2	✓				National Red Data Book - Vulnerable	
TRACHEOPHYTA/ MAGNOLIOPSIDA	Viola uliginosa		✓				National Red Data Book - Near Threatened	

The site supports 5 plant species from the National Red Data Book.	

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

Phylum	Scientific name	criterion	Species contributes under criterion 3 5 7 8	Pop. Size	Period of pop. Est.	% Occurrence 1) IUC	d Appondix	CMS Appendix I	Other Status	Justification
Others										
CHORDATA/ REPTILIA	Coronella austriaca								National Red Data Book - Vulnerable	
CHORDATA/ REPTILIA	Emys orbicularis								National Red Data Book - Vulnerable	
CHORDATA/ MAMMALIA	nilssonii					LC			National Red Data Book - Vulnerable	
CHORDATA/ MAMMALIA	Lutra rutra					N	✓			
CHORDATA/ MAMMALIA						LC			National red data Book - Endangered	
CHORDATA/ MAMMALIA	Meles meles					LC			National Red Data Book - Endangered	
CHORDATA/ MAMMALIA	Mustela lutreola					CI			National Red Data Book - Critically Endangered	The site is one of 3 habitats of this species known in Belarus.
CHORDATA/ MAMMALIA	Myotis brandtii					LC			National Red Data Book - Vulnerable	
Birds							_			
CHORDATA/ AVES	Aquila clanga			12	2004-2010	V		/	National Red Data Book - Critically Endangered	6 breeding pairs
	Aquila pomarina				2004-2010	LC			National Red Data Book - Vulnerable	breeding
CHORDATA/ AVES	Ciconia nigra				2004	LC			National Red Data Book - Vulnerable	breeding
CHORDATA/ AVES	Circaetus gallicus				2004	LC			National Red data Book - Endangered	breeding
CHORDATA/ AVES	leucotos					LC			National Red Data Book - Near Threatened	
CHORDATA/ AVES	Falco subbuteo					LC			National Red Data Book - Near Threatened	
CHORDATA/ AVES	Grus grus				2004	LC			National Red Data Book - Vulnerable	breeding
CHORDATA/ AVES	Haliaeetus albicilla			8	2004	LC		/	Natioanal Red Data Book - Endangered	4 breeding pairs
AVES	Limosa iimosa				2004	N			National Red Data Book - Vulnerable	breeding
	Numenius arquata				2004	N			National Red Data Book - Vulnerable	breeding
CHORDATA/ AVES	Strix nebulosa			20	2007	LC			National Red Data Book - Endangered	10 breeding pairs
CHORDATA/ AVES	Tringa nebularia				2004	LC			National Red Data Book - Vulnerable	breeding

1) Percentage	of the to	tal biogeogi	ranhic nonu	lation at	the site

The site supports 12 bird species and 4 animal specie from the National Red Data Book.

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

RIS for Site no. 2140, Stary Zhaden, Belarus

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
7120 Degraded raised bogs still capable of natural regeneration	Ø		Annex I of the Habitats Directive
7110* Active raised bogs	Ø		Annex I of the Habitats Directive, priority habitat
7140 Transition mires and quaking bogs	2		Annex I of the Habitats Directive
9080* Fennoscandian deciduous swamp woods	Ø		Annex I of the Habitats Directive, priority habitat
91D0* Bog woodland	Ø		Annex I of the Habitats Directive, priority habitat

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

4.1 - Ecological character

Wetland "Stary Zhaden" is a complex wetland system with a prevalence of large mire massifs typical of the Belarusian Polesie. This area is characterized by a combination of fen mires and transitional mires (the latter form the core of the reserve) with massifs of old-aged forests that grow on elevations, which are a kind of "islands".

The Site's vegetation structure is composed of forests, occupying 65.3% of the site's area, 31.5% of mires, 0.6% meadows, 0.9% shrubs, and 1.8% of other land covers. The core of the wetland is a complex of nemoral fen mires, combined with sphagnum transitional mires of boreal type and sphagnum raised bogs. Along the periphery of the mires and islands, there are swampy, waterlogged and dry forests, playing the role of a buffer zone for sphagnum mires. Pine forests dominate (66.1% of the forest cover). The share of the white birch is 15.9%, and the silver birch – 14.4%. There are also alder forests (2.7%) and oak woods (0.9%).

The territory of the site is located between the rivers Pripyat and its right tributaries Stviga and Ubort'. Directly on the territory of the site, the hydrological network is represented only by drainage canals. On the eastern border of the site, near the mire tracts Old Zhadensk and Velikoe Mire, there are the Main Ditch and the Bychok Canal, which were built more than 120 years ago. The canals are overgrown with aquatic vegetation, and in some places are closed by floating vegetation mats. Numerous beaver dams prevent the flow of water from the mires. The wetland contributes to maintaining the groundwater level, water filling of the rivers of the Pripyat River basin. The mire system influences the formation of heat and water balance, serves as an accumulator of ground and atmospheric water, and prevents the development of erosion processes. It plays a significant role in the global carbon cycle, accumulating a significant amount of it.

On the territory of the wetland 563 species of vascular plants (including hybridogeneous taxa) are registered. The dominant life forms are perennial grasses (72%) and woods (12%). 16% - annual and biennial plants, the presence of which reflects the intensive forest management within the wetland (the network of forest roads, logging, forest cultivation).

The fauna of the wetlands is diverse and representatively reflects the environmental characteristics of the all spectrum of wetland ecosystems. Within the wetland five classes of vertebrate animals registered: 12 fish species (pike, bream and roach are common), 4 amphibians species (moor frog is dominated by), 5 reptiles species, and 104 birds species (represented by 13 orders), 20 mammal species.

Collecting of berries (blueberries, cranberries) within the wetland is an important source of income for the local population. Within the wetland harvesting of biological resources carries out in following ways:

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□ harvesting of fruit, berries (blueberry, cranberry, raspberry) and mushrooms
□ harvesting of officinal and technical plants
□ commercial beekeeping.

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

Inland wetlands

Wetland types (code and	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha)	Justification of Criterion 1
name)	Local Harris	Terming of exteric (1. greatest - 4. least)	of wetland type	Cacanoulon of Grid IOII I
Fresh water > Flowing water >> M. Permanent rivers/ streams/ creeks		0	2	
Fresh water > Flowing water >> N: Seasonal/ intermittent/ irregular rivers/ streams/ creeks		0	2	
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/ pools		4	1337	
Fresh water > Marshes on inorganic soils >> Ts: Seasonal/ intermittent freshwater marshes/ pools on inorganic soils		0	798	Rare
Fresh water > Marshes on peat soils >> U: Permanent Non- forested peatlands		2	1541	Rare
Fresh water > Marshes on inorganic soils >> W: Shrub- dominated wetlands		0	1229	Rare
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		3	1539	Rare
Fresh water > Marshes on peat soils >> Xp: Permanent Forested peatlands		1	4259	Rare

Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type
9: Canals and drainage channels or ditches		0	12

4.3 - Biological components

4.3.1 - Plant species

Other noteworthy plant species

Phylum	Scientific name	Position in range / endemism / other
TRACHEOPHYTA/LILIOPSIDA	Anthericum ramosum	
TRACHEOPHYTA/MAGNOLIOPSIDA	Aquilegia vulgaris	
TRACHEOPHYTA/MAGNOLIOPSIDA	Campanula persicifolia	
TRACHEOPHYTA/LILIOPSIDA	Dactylorhiza incarnata	
TRACHEOPHYTA/LILIOPSIDA	Dactylorhiza maculata	
TRACHEOPHYTA/MAGNOLIOPSIDA	Daphne mezereum	
TRACHEOPHYTA/LILIOPSIDA	Goodyera repens	
TRACHEOPHYTA/MAGNOLIOPSIDA	Hepatica nobilis	
TRACHEOPHYTA/LILIOPSIDA	Juncus bulbosus	
TRACHEOPHYTA/MAGNOLIOPSIDA	Jurinea cyanoides	
TRACHEOPHYTA/MAGNOLIOPSIDA	Polemonium caeruleum	
TRACHEOPHYTA/MAGNOLIOPSIDA	Primula veris	
TRACHEOPHYTA/MAGNOLIOPSIDA	Pulsatilla patens	
TRACHEOPHYTA/MAGNOLIOPSIDA	Pyrola media	
TRACHEOPHYTA/MAGNOLIOPSIDA	Thalictrum aquilegifolium	
TRACHEOPHYTA/MAGNOLIOPSIDA	Tragopogon bjelorussicus	

Optional text box to provide further information

There are 563 species of vascular plants on the territory of the wetland (303 genus, 82 families, 52 orders, 6 classes and 5 divisions).

4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Pop. size	Period of pop. est.	%occurrence	Position in range /endemism/other
CHORDATAMAMMALIA	Alces alces				
CHORDATA/MAMMALIA	Canis lupus				
CHORDATA/MAMMALIA	Castor fiber				
CHORDATA/MAMMALIA	Dryomys nitedula				
CHORDATA/MAVIMALIA	Lepus europaeus				
CHORDATA/MAMMALIA	Lepus timidus				
CHORDATA/AVES	Lyrurus tetrix				
CHORDATA/MAMMALIA	Martes martes				
CHORDATA/MAM/MALIA	Muscardinus avellanarius				National Red Data Book - Near Threatened
CHORDATA/MAMMALIA	Nyctalus lasiopterus				
CHORDATA/MAMMALIA	Nyctereutes procyonoides				
CHORDATA/AVES	Picoides tridactylus				National Red Data Book - Near Threatened
CHORDATA/MAMMALIA	Sus scrofa				
CHORDATAVAES	Tetrao urogallus				

Invasive alien animal species

Phylum	Scientific name	Impacts	Changes at RIS update
CHORDATA/MAMMALIA	Neovison vison	Potential	No change

The fauna of the wetlands is diverse and representatively reflects the environmental characteristics of the all spectrum of wetland ecosystems. Within the wetland five classes of vertebrate animals registered: 12 fish species (pike, bream and roach are common), 4 amphibians species (moor frog is dominated by), 5 reptiles species, and 104 birds species, 20 mammal species.

4.4 - Physical components

4.4.1 - Climate

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

The average annual long-term air temperature is $+6.9 \pm 0.10$ C, varying in different years from +4.9 (1940) to +8.70C (1989, 2008). The warmest month is July (+18.60C), the coldest - January (-5.40C).

The duration of the period with average daily temperatures above 00C is 256 days, vegetation period - 207 days, frost-free period - 148 days. The latest frost was recorded on 2 of May, the first - on 28 of September. The average monthly temperature in January ranges from 0.80C (1989) to -15.80C (1987), in July from +15.30C (1979) to +22.70C (2010). The average monthly temperature of the soil surface is up to -70C in winter and up to +220C in July.

The average annual long-term amount of precipitation is 671 ± 12 mm, varying in different years from 422 (1963) to 969 mm (1998).

See additional material for further information.

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4.	4.2	- (je:	om	1OI	'n	II C	se	ttı	na

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 territory of the wetland is located between river Pripyat (right tributary of the Dnieper River, Black Sea basin) and its right tributaries – rivers Stviga and Ubort.

4.4.3 - Soil

Mineral

(Update) Changes at RIS update No change Increase O Decrease O Unknown O

Organic

(Update) Changes at RIS update No change Increase O Decrease O Unknown O

No available information □

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)

The main types of soils are mire soils and sod-podzols. Groundwater comes quite close to the soil surface here. This leads to significant spread of sod-podzolic soils of varying hydromorphic degrees and intensive process of mire soil development. Soils of bog type occupy large areas, confined to the central part of the wetland. Soils of transition mire adjoin them. Soils of the fens are dominated by shallow peat, peat-gley, peaty-gley, humic-gley and silty-humic soils, which underlain by unconsolidated ancient alluvial sands.

See additional material for further information.

4.4.4 - Water regime

Water permanence

vvater permanence		
Presence?		Changes at RIS update
	Usually permanent water	
	present	

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Water inputs from surface water		No change
Water inputs from groundwater		No change
Water inputs from precipitation	V	No change

Water destination

Presence?	Changes at RIS update
To downstream catchment	No change
Feeds groundwater	No change

Stability of water regime

Presence?		Changes at RIS update		
	Water levels largely stable	No change		

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

The territory of the wetland is located between river Pripyat and its right tributaries – rivers Stviga and Ubort. Hydrological network within the wetland is represented by only amelioratyive canals which are connected with the main water arteries draining the wetland - river Pripyat, and especially its right tributary - river Stviga.

On the eastern border of the site, near the mire tracts Old Zhadensk and Velikoe Mire, there are the Main Ditch and the Bychok Canal, which were built more than 120 years ago. The canals are overgrown with aquatic vegetation, and in some places are closed by floating vegetation mats. Numerous beaver dams prevent the flow of water from the mires.

4 4 -	O 1:			
4.4.5	 Sedi 	ment	rea	ıme

4.4.5 - Sediment regime	
Significant accretion or deposition of sediments occurs on the site	
(Update) Changes at RIS update	No change Increase Decrease Unknown Unknown O
Sediment regime unknown	
4.4.6 - Water pH	
Acid (pH<5.5)	☑
(Update) Changes at RIS update	No change Increase Decrease Unknown O
Circumneutral (pH: 5.5-7.4)	☑
(Update) Changes at RIS update	No change Increase O Decrease O Unknown O
Unknown	
Please provide further information on pH (optional):	
transition mires, and 4.6-5.9 for fens.	s close to natural conditions, the average pH value is 3.3-3.8 for bogs, 3.6-4.0 for
4.4.7 - Water salinity	
Fresh (<0.5 g/l)	☑
(Update) Changes at RIS update	No change Increase Decrease Unknown O
Unknown	
4.4.8 - Dissolved or suspended nutrients in water	
Eutrophic	
(Update) Changes at RIS update	No change
Mesotrophic	
(Update) Changes at RIS update	No change
Oligotrophic	

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 O ii) significantly different © site itself.

Unknown

Surrounding area has greater urbanisation or development \Box
Surrounding area has higher human population density $lacksquare$
Surrounding area has more intensive agricultural use \Box
Surrounding area has significantly different land cover or habitat types $\hfill\Box$

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

1 To Note I mily Control			
	Ecosystem service	Examples	Importance/Extent/Significance
	Food for humans	Sustenance for humans (e.g., fish, molluscs, grains)	Medium
	Fresh water	Drinking water for humans and/or livestock	Medium
	Wetland non-food products	Timber	Low

Regulating Services

Regulating Services							
Ecosystem service	Examples	Importance/Extent/Significance					
Maintenance of hydrological regimes	Groundwater recharge and discharge	High					
Maintenance of hydrological regimes	Storage and delivery of water as part of water supply systems for agriculture and industry	High					
Pollution control and detoxification	Water purification/waste treatment or dilution	High					
Hazard reduction	Flood control, flood storage	Medium					

Cultural Services

California Col 11000								
Ecosystem service	Examples	Importance/Extent/Significance						
Recreation and tourism	Nature observation and nature-based tourism	Low						
Recreation and tourism	Recreational hunting and fishing	Low						

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganizms, the genes they contain, and the ecosystems of which they form a part	High
Nutrient cycling	Carbon storage/sequestration	Medium

Optional text box to provide further information	
Collecting of berries (blueberries, cranberries) within the wetland is an important source of income for the local population. Within the wetland harvesting of biological resources carries out in following ways: harvesting of fruit, berries (blueberry, cranberry, raspberry) and mushrooms harvesting of officinal and technical plants commercial bee-keeping	
Within the site: 0	
Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site?	
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	
ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland	
iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples	
iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland	

<no data available>

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
Provincial/region/state government	>	>
National/Federal government	2	2

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

within the Ramsar site:

State lands leased by SFI "Polesski Forestry" and farmland of M. Shruba.

in the surrounding area:

State lands leased by agricultural enterprises and forestries.

5.1.2 - Management authority

Protection of the reserve was entrusted to the Zhitkovichi and Lelchitsy District Executive Committees. Please list the local office of offices of any General supervision and control over the state, protection and use of the territory of the reserve is agency or organization responsible for entrusted to the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus managing the site: and it's local agency: Zhitkovichi and Lelchitsy Inspections of Nature Resources and Environmental Protection.

Provide the name and/or title of the person or people with responsibility for the wetland:

Director of the Zhitkovichi Inspection of Nature Resources and Environmental Protection - Svezhenets Ivan Anatolievich

Postal address:

Zhitkovichi Inspection of Nature Resources and Environmental Protection Shkolnaya 7, Zhitkovichi, 247960 Belarus

E-mail address: | zhroos@mail.gomel.by

5.2 - Ecological character threats and responses (Management)

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

Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Hunting and collecting terrestrial animals	Medium impact	Medium impact	✓	No change	✓	No change
Logging and wood harvesting	Low impact	Medium impact	2	No change	✓	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	Low impact	Low impact	✓	No change	✓	No change

Natural system modifications

Hadara Oyotom modifications							
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes	
Fire and fire suppression	Medium impact	Medium impact	✓	No change	✓	No change	
Dams and water management/use	Low impact	Medium impact	2	No change	2	No change	

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Unspecified	Low impact	Low impact	✓	No change	✓	No change
Garbage and solid waste	Medium impact	Medium impact	₽	No change		No change

Climate change and severe weather

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Droughts	Medium impact	Medium impact	✓	No change	✓	No change

Please describe any other threats (optional):

a) within the Ramsar site:

Logging. Substantial and continuing threat to natural forest ecosystems is logging, first of all - final harvesting. During the period from 2002 to 2010 2638.7 ha (30.7% of forested area) of the wetland territory was affected by logging, 28.2 thousand m3 of wood were harvested. The most intensive logging was carried out in 2002-2004. After the site was designated as protected area (2015), logging is carried out in accordance with nature protection regulations.

Fires. Fires belong to one of the most significant threats to functioning of natural systems. The main causes of fires: mass visiting the territory by people during the berries and mushrooms collection, disruption of the hydrological regime as a result of drainage reclamation, extreme summer droughts. Especially disastrous fires were in July-September of 2002. As a result, 4322.8 ha (25.5%) of the forest were damaged, 2016.5 ha (18.1% of the forested area) were severely damaged. Timber stock of dead forests is up to 144.0 thousand m3 (12.7%). Fire caused significant damage to the vegetation resources (berries, officinal plants). The annual minimal cost of damages only from the reduction of cranberries harvesting is about 100-250 thousand USD. The fires led to occurring of the secondary post-fire vegetation, drying out the pine on the mires, in some places - to destroying of ground cover, and consequently to biological diversity decreasing.

Pollution. There is local pollution of the site's ecosystems with household garbage in the vicinity of villages located on the periphery of the site, as well as in places where camps for berry pickers are organized in the western and southern sectors of the reserve.

Impact of existing drainage network. The major waterways within the wetland are the network of old canals and ditches of the end of XIX.

Despite the fact that nowadays the drainage network is not functioning effectively enough, it still influences the wetland vegetation formation.

Lowering og the groundwater level leads to fires, and to encroachment of shrubs and trees to open mire areas.

Recreational loads on protected areas are hunting, picking mushrooms and berries. In this regard, a long-term path network of winter roads, entrances to the swamp, and places of standing were formed in the site. Berry picking (traditionally picker camps are 200–300 people) occurs with the use of handheld harvesters, often on an industrial scale (90–95% of the annual berry harvest is taken), the deadlines for harvesting berries are violated.

Poaching. As a result of poaching, the number of the main economically valuable animals is much lower than the biological capacity of the site.

Radioactive contamination. As a result of the Chernobyl disaster the area of the wetland was subjected to insignificant contamination of <37 kBq/m2 (<1 Cu/km2) with 137Cs.

5.2.2 - Legal conservation status

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site				
Wetland Reserve of Republican Importance	Stary Zhaden	http://zapovednytur.by/oopt/zaka zniki/vodno-bolotnye/staryj-zhad en.html	whole				

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Stary Žadzien	http://iba.ptushki.org/en/iba/6/ full	partly

5.2.3 - IUCN protected areas categories (2008)

la Strict Nature Reserve
Ib Wilderness Area: protected area managed mainly for wilderness protection
Il National Park: protected area managed mainly for ecosystem protection and recreation
Il Natural Monument: protected area managed mainly for conservation of specific natural features
V Habitat/Species Management Area: protected area managed mainly for conservation through management intervention
/ Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation
Managed Resource Protected Area: protected area managed mainly

5.2.4 - Key conservation measures

Legal protection

Measures	Status
Legal protection	Implemented

Human Activities

Tarrarr Davidoo		
Measures	Status	
Harvest controls/poaching enforcement	Partially implemented	

5.2.5 - Management planning

Is there a site-specific management plan for the site? No

Has a management effectiveness assessment been undertaken for the site?

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning Yes O No

processes with another Contracting Party?

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

There are no observational points and ecological trails on the wetland.

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No need identified

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Animal species (please specify)	Implemented

Case studies of landscape and biological diversity in the reserve were carried out to prepare the scientific justification for the establishment of the reserve of national importance "Stary Zhaden". In 2011 flora and fauna of the wetland were studied in details, the systematic list of major groups of vertebrates was also prepared; rare and endangered species were identified, and the current condition of the wetland was assessed in 2003. These works were carried out by various specialists of the Scientific and Practical Center for Bioresources of the National Academy of Sciences, and of the Institute of Experimental Botany of the National Academy of Sciences.

The status of the population Aquila clanga (I category of the Red Data Book of Belarus, the European conservation status (SPEC-1), the European threat status (EN), Annex of CITES) is annually monitored.

Forestry management, grading of hunting areas, counts of hunting and rare species are periodically carried out on this territory. The obtained data have the great scientific importance (Scientific and Practical Center for Bioresources of the National Academy of Sciences, RUE "Belgosohota", RUE "Belgosles", national park "Pripytsky").

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

- 1. The Red Data Book of Belarus. Animals: rare and threatened species of wild animals / Ministry of Nature Resources and Environmental Protection of the Republic of Belarus; National Academy of Sciences of Belarus, Ch. Editorial Board I.M. Kachanovsky. - 4th edition. - Minsk: Belarussion Encyclopedia named after Petrus Brouka, 2015. - 317.
- 2. The Red Data Book of Belarus. Plants: rare and threatened species of wild plants / Ministry of Nature Resources and Environmental Protection of the Republic of Belarus; National Academy of Sciences of Belarus, Ch. Editorial Board I.M. Kachanovsky. M.E.Nikiforov, V.I.Parfionov [and others]. - 4th edition. - Minsk: Belarussion Encyclopedia named after Petrus Brouka, 2015. - 448.
- 3. Treasures of Belarusian Nature: Areas of international importance for biodiversity conservation / A.V. Kozulin [and others]. 2nd ed. Mn.: Belarus, 2005. - 215.
- 4. Dambrovski V.Ch. http://iba.ptushki.org/be/iba/6/full

6.1.2 - Additional reports and documents

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

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

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

iv. relevant Article 3.2 reports

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:



Transition mires dominate within the site. (*Grummo D.* 12-07-2011)



Old-aged pine forest



Raised boos are located in the centre of tyhe mire massif. (Grummo D., 12-07-2011)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2012-09-07