

# Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

0.1 Member State	HU
0.2.1 Species code	1409
0.2.2 Species name	Sphagnum spp.
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	tőzegmoha fajok

## 1. National Level

### 1.1 Maps

1.1.1 Distribution Map	Yes
1.1.1a Sensitive species	No
1.1.2 Method used - map	Complete survey/Complete survey or a statistically robust estimate (3)
1.1.3 Year or period	2007-2010
1.1.4 Additional map	No
1.1.5 Range map	Yes

## 2. Biogeographical Or Marine Level

### 2.1 Biogeographical Region

#### Pannonian (PAN)

Nagy, J., Cserhalmi, D., Gál, B. (2008). The reconstruction of vegetation change in the last 55 years on a mire of Bereg plain. Acta Botanica Hungarica, Vol. 50 No: 1-2. p. 163-170.

Cserhalmi, D., Nagy, J., Neidert, D. and Kristóf, D. (2010): The reconstruction of vegetation change in Nyíres-tó mire: an image-segmentation study. – Acta Botanica Hungarica 52 (1–2), in press. Online: DOI 10.1556/ABot.52.2010.1-2.e1

Pálfy Tamás: Vizes élőhelyek vizsgálata a Fekete-hegyen (Balaton-felvidék). Szakdolgozat, NYME, 2009

Az Öcsi Nagy-tó természetvédelmi kezelési terve. 2008. BfNPI kézirat

Misik T. – Misik-Bartók D. (2010): Új tőzegmoha-előfordulás a Mátrában. Kitaibelia, 15. 1-2): Apró közlemények, p. 180

Misik T. – Misik-Bartók D. (2011): Distribution of Sphagnum quinquefarium in Hungary. Acta Biologica Plantarum Agriensis, 2.: 97-99.

Marschall Marianna: Photosynthetic responses, carbohydrate composition and invertase activity in fructan accumulating bryophytes (*Porella platyphylla* and *Sphagnum flexuosum*) under different environmental conditions. Acta biologica Hungarica, 2010. (61. évf.) Supplement 1 120-129. old.

Steinberg, S. M. - Kimble, G. M. - Schmett, G. T. - Emerson, D. W. - Turner, M. F. - Rudin, M.: Abiotic reaction of iodate with sphagnum peat and other natural organic matter. Journal of radioanalytical and nuclear chemistry, 2008. (277. évf.) 277/1. sz. 185-191. old.

### 2.3 Range

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2.3.1 Surface area - Range (km <sup>2</sup> )	3130		
2.3.2 Method - Range surface area	Complete survey/Complete survey or a statistically robust estimate (3)		
2.3.3 Short-term trend period	2001-2012		
2.3.4 Short-term trend direction	stable (0)		
2.3.5 Short-term trend magnitude	min	max	
2.3.6 Long-term trend period			
2.3.7 Long-term trend direction	N/A		
2.3.8 Long-term trend magnitude	min	max	
2.3.9 Favourable reference range	area (km <sup>2</sup> ) operator unkown method	approximately equal to (≈) No	
2.3.10 Reason for change	Improved knowledge/more accurate data	Use of different method	

## 2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit	area coverd by population in m <sup>2</sup> (area)	
	min	20000	max 29000
2.4.2 Population size (other than individuals)	Unit	N/A	
	min		max
2.4.3 Additional information	Definition of locality Conversion method Problems		
2.4.4 Year or period	2007-2012		
2.4.5 Method – population size	Complete survey/Complete survey or a statistically robust estimate (3)		
2.4.6 Short-term trend period	2001-2012		
2.4.7 Short term trend direction	stable (0)		
2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	Estimate based on partial data with some extrapolation and/or modelling (2)		
2.4.10 Long-term trend period			
2.4.11 Long term trend direction	N/A		
2.4.12 Long-term trend magnitude	min	max	confidence interval
2.4.13 Long-term trend method	N/A		
2.4.14 Favourable reference population	number operator more than (>) unknown No method		
2.4.15 Reason for change	Improved knowledge/more accurate data	Use of different method	

## 2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km <sup>2</sup> )	100		
2.5.2 Year or period	2007-2012		
2.5.3 Method used - habitat	Estimate based on partial data with some extrapolation and/or modelling (2)		
2.5.4 a) Quality of habitat	Moderate		
2.5.4 b) Quality of habitat - method	csapadékmenyiség, szukcesszió, mikroklimatikus viszonyok, területhesználat		
2.5.5 Short term trend period	2001-2012		
2.5.6 Short term trend direction	stable (0)		
2.5.7 Long-term trend period			
2.5.8 Long term trend direction	N/A		

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2.5.9 Area of suitable habitat (km <sup>2</sup> )	100
2.5.10 Reason for change	Improved knowledge/more accurate data Use of different method

## 2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
droughts and less precipitations (M01.02)	high importance (H)	N/A
species composition change (succession) (K02.01)	high importance (H)	N/A
temperature changes (e.g. rise of temperature & extremes) (M01.01)	high importance (H)	N/A
forestry clearance (B02.02)	high importance (H)	N/A
abandonment / lack of mowing (A03.03)	medium importance (M)	N/A
canalisation (J02.03.02)	medium importance (M)	N/A
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
thinning of tree layer (B02.06)	medium importance (M)	N/A
damage by herbivores (including game species) (K04.05)	medium importance (M)	N/A

2.6.1 Method used – pressures based exclusively or to a larger extent on real data from sites/occurrences or other information

## 2.7 Main Threats

Threat	ranking	pollution qualifier(s)
droughts and less precipitations (M01.02)	high importance (H)	N/A
species composition change (succession) (K02.01)	high importance (H)	N/A
temperature changes (e.g. rise of temperature & extremes) (M01.01)	high importance (H)	N/A
forestry clearance (B02.02)	high importance (H)	N/A
abandonment / lack of mowing (A03.03)	medium importance (M)	N/A
canalisation (J02.03.02)	medium importance (M)	N/A
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
thinning of tree layer (B02.06)	medium importance (M)	N/A
damage by herbivores (including game species) (K04.05)	medium importance (M)	N/A

2.7.1 Method used – threats expert opinion (1)

## 2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

2.8.3 Trans-boundary assessment

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

2.9.1 Range assessment Favourable (FV)  
qualifiers N/A

2.9.2. Population assessment Inadequate (U1)  
qualifiers stable (=)

2.9.3. Habitat assessment Inadequate (U1)  
qualifiers stable (=)

2.9.4. Future prospects assessment Inadequate (U1)  
qualifiers stable (=)

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2.9.5 Overall assessment of Conservation Status Inadequate (U1)

2.9.5 Overall trend in Conservation Status stable (=)

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

### 3.1 Population

3.1.1 Population Size Unit area coverd by population in m2 (area)  
min max

3.1.2 Method used Absent data (0)

3.1.3 Trend of population size within N/A

### 3.2 Conversation Measures

Térképmelléklet az élőhelyvédelmi irányelv 17. cikke alapján készített országjelentéshez  
2013.

**Sphagnum fajok**      (*Sphagnum spp.*)

V. melléklet

