

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)

2.2 Published sources

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 ²) | 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 ²) operator approximately equal to (≈) unknown No method |
| 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 covered by population in m2 (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 ²) | 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 | csapadékmennyiség, szukcesszió, mikroklimatikus viszonyok, területhasználat |
| 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 (km²) 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

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 covered 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

