

# 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	1428
0.2.2 Species name	Marsilea quadrifolia
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	négylevelű mótelyfű

## 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	<b>Pannonian (PAN)</b>
2.2 Published sources	Jakab, G. (szerk.) 2012: A Körös-Maros Nemzeti Park növényvilága – Körös-Maros Nemzeti Park Igazgatóság, Szarvas. A Nemzeti Biodiverzitás-monitorozó Rendszer keretében 2007-2012 között végzett felmérések kutatási jelentései

### 2.3 Range

2.3.1 Surface area - Range (km <sup>2</sup> )	1856
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 more than (>) unkown No method
2.3.10 Reason for change	Genuine Improved knowledge/more accurate dataUse of different method

### 2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit area covered by population in m2 (area) min 100 max 400
2.4.2 Population size (other than individuals)	Unit N/A min max
2.4.3 Additional information	Definition of locality Conversion method Problems Mivel az eddigi hajtásszám megadása nem vezetett egységes eredményre, a faj szakértőinek javaslata alapján az állományadatokat m2 levélfelület-

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egységben adjuk meg, mert ez a számlálási egység felel meg leginkább a faj morfológiájából adódóan.

2.4.4 Year or period	2007-2010		
2.4.5 Method – population size	Estimate based on partial data with some extrapolation and/or modelling (2)		
2.4.6 Short-term trend period	2001-2012		
2.4.7 Short term trend direction	unknown (x)		
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	Genuine Improved knowledge/more accurate data		

## 2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km <sup>2</sup> )	0,1		
2.5.2 Year or period	2007-2010		
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	figyelembe vett körülmények: védettség, területhasználat, vízellátottság, szukcessziós viszonyok		
2.5.5 Short term trend period	2001-2012		
2.5.6 Short term trend direction	unknown (x)		
2.5.7 Long-term trend period			
2.5.8 Long term trend direction	N/A		
2.5.9 Area of suitable habitat (km <sup>2</sup> )	0		
2.5.10 Reason for change	Genuine Improved knowledge/more accurate data		

## 2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
Cultivation (A01)	high importance (H)	N/A
Drying out (K01.03)	high importance (H)	N/A
Landfill, land reclamation and drying out, general (J02.01)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
Restructuring agricultural land holding (A10)	low importance (L)	N/A
use of biocides, hormones and chemicals (A07)	low importance (L)	N/A
Pollution to groundwater (point sources and diffuse sources) (H02)	low importance (L)	N/A
eutrophication (natural) (K02.03)	low importance (L)	N/A
Modification of hydrographic functioning, general (J02.05)	low importance (L)	N/A
hand raking (F04.02.01)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	low importance (L)	N/A

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## 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)
Cultivation (A01)	high importance (H)	N/A
Drying out (K01.03)	high importance (H)	N/A
Landfill, land reclamation and drying out, general (J02.01)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	low importance (L)	N/A
Pollution to groundwater (point sources and diffuse sources) (H02)	low importance (L)	N/A
Dykes, embankments, artificial beaches, general (J02.12)	low importance (L)	N/A
Silting up (K01.02)	low importance (L)	N/A
eutrophication (natural) (K02.03)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	low importance (L)	N/A
intensive fish farming, intensification (F01.01)	low importance (L)	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

Az országos állomány méretének megállapítását nehezíti a vízjárástól függő erős fluktuáció, aminek következménye lehet, hogy régi állományok tűnnek el, újak kerülnek elő, azonban a régi lelőhelyek állománya kedvező feltételek esetén újra megelenhet.

Mivel az eddigi hajtásszám megadása nem vezetett egységes eredményre, a faj szakértőinek javaslata alapján az állományadatokat m<sup>2</sup> levélfelület-egységben adjuk meg, mert ez a számlálási egység felel meg leginkább a faj morfológiájából adódóan.

### 2.8.3 Trans-boundary assessment

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

### 2.9.1 Range

assessment Inadequate (U1)  
qualifiers stable (=)

### 2.9.2. Population

assessment Inadequate (U1)  
qualifiers unknown (x)

### 2.9.3. Habitat

assessment Inadequate (U1)  
qualifiers stable (=)

### 2.9.4. Future prospects

assessment Inadequate (U1)  
qualifiers stable (=)

### 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

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## 3.1 Population

3.1.1 Population Size	Unit	area covered by population in m2 (area)		
	min	80	max	320
3.1.2 Method used	Estimate based on partial data with some extrapolation and/or modelling (2)			
3.1.3 Trend of population size within	N/A			

## 3.2 Conversation Measures

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Specific single species or species group management measures (7.4)	One-off	low importance (L)	Inside	Maintain Enhance
Restoring/improving the hydrological regime (4.2)	Administrative Contractual Recurrent	high importance (H)	Inside	Maintain Long term
Other species management measures (7.0)	Recurrent	medium importance (M)	Both	Long term
Establish protected areas/sites (6.1)	One-off	low importance (L)	Inside	Long term

