

# 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	4067
0.2.2 Species name	<b>Echium russicum</b>
0.2.3 Alternative species scientific name	Echium maculatum
0.2.4 Common name	piros kígyószisz

## 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	2001-2012
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	VOJTKÓ A. (2008): Florisztikai adatok Észak-Magyarországról. - Kitaibelia 13(1): 55-61. 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> )	7841
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 approximately equal to (≈) unkown No method
2.3.10 Reason for change	Improved knowledge/more accurate data

### 2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit number of individuals (i) min 28000 max 31500
2.4.2 Population size (other than individuals)	Unit N/A min max
2.4.3 Additional information	Definition of locality Conversion method Problems A faj egyedszáma egy adott lokalitásban jelentős fluktuációt mutat (adott év csapadékjárása ill. a magvak csírázásának sikere alapján). Sok esetben

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kétéves fajokra utaló stratégia jellemzi.

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	Complete survey/Complete survey or a statistically robust estimate (3)		
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	approximately equal to (≈)
		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> )	15		
2.5.2 Year or period	2007-2012		
2.5.3 Method used - habitat	Complete survey/Complete survey or a statistically robust estimate (3)		
2.5.4 a) Quality of habitat	Moderate		
2.5.4 b) Quality of habitat - method	Figyelembe vett tényezők: inváziós fertőzöttség, védettség, területhasználat, szukcessziós viszonyok		
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		
2.5.9 Area of suitable habitat (km <sup>2</sup> )	15		
2.5.10 Reason for change	Improved knowledge/more accurate data	Use of different method	

## 2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
fire and fire suppression (J01)	high importance (H)	N/A
Biocenotic evolution, succession (K02)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
Trampling, overuse (G05.01)	low importance (L)	N/A
genetic pollution (plants) (I03.02)	low importance (L)	N/A
open cast mining (C01.04.01)	low importance (L)	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)
fire and fire suppression (J01)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A

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abandonment of pastoral systems, lack of grazing (A04.03)	medium importance (M)	N/A
damage caused by game (excess population density) (F03.01.01)	medium importance (M)	N/A
Trampling, overuse (G05.01)	low importance (L)	N/A
open cast mining (C01.04.01)	low importance (L)	N/A
genetic pollution (plants) (I03.02)	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 Echium dombvidéki állományait megtizedelte az évtizedek óta tartó égetés, amelyet nem igazán tolerál. Sokkal inkább az erdős-sztyepp rétegekhez és löszgyepekhez kötődik és kevésbé a sztyeprétegekhez, bár azokban is előfordul. A másodlagos élőhelyei, amelyeket a legeltetés tartott fenn, eltűnnek, erdősítés, akácosodás, spontán erdősülés útján.

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 Favourable (FV)  
qualifiers N/A

2.9.3. Habitat assessment Favourable (FV)  
qualifiers N/A

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

### 3.1 Population

3.1.1 Population Size Unit number of individuals (i)  
min 11000 max 16000

3.1.2 Method used Complete survey/Complete survey or a statistically robust estimate (3)

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
Other species management measures (7.0)	Recurrent	high importance (H)	Both	Long term
Other measures (8.0)	One-off	low importance (L)	Inside	Enhance

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Other agriculture-related measures (2.0)	Administrative Recurrent	high importance (H)	Both	Maintain Enhance Unknown
Maintaining grasslands and other open habitats (2.1)	Recurrent	medium importance (M)	Inside	Maintain Enhance Long term
Establish protected areas/sites (6.1)	Legal One-off	low importance (L)	Outside	Maintain Enhance

