

# 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	2285
0.2.2 Species name	<b>Colchicum arenarium</b>
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	homoki kikerics

## 1. National Level

### 1.1 Maps

1.1.1 Distribution Map	Yes
1.1.1a Sensitive species	No
1.1.2 Method used - map	Estimate based on partial data with some extrapolation and/or modelling (2)
1.1.3 Year or period	2007-2012
1.1.4 Additional map	No
1.1.5 Range map	Yes

## 2. Biogeographical Or Marine Level

### 2.1 Biogeographical Region

#### Pannonian (PAN)

Persson, K. 2007. Nomenclatural synopsis of the genus Colchicum (Colchicaceae), with some new species and combinations. Bot. Jahrb. Syst. 127(2):165–242.

Karin Persson, Gitte Petersen, Alberto del Hoyo, Ole Seberg & Tina Jørgensen 2011. A phylogenetic analysis of the genus Colchicum L. (Colchicaceae) based on sequences from six plastid regions. TAXON 60 (5) October 1349–1365

Bércecs S., (2011): A biodiverzitás monitorozása homoki élőhelyeken a Duna-Ipoly Nemzeti Park Igazgatóság területén. Természetvédelem és kutatás a Duna–Tisza között homokhátságon Rosalia 6, pp. 447–471.

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> )	5497
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	N/A
2.3.7 Long-term trend direction	min max
2.3.8 Long-term trend magnitude	area (km <sup>2</sup> ) more than (>)
2.3.9 Favourable reference range	operator No unkown method
2.3.10 Reason for change	Improved knowledge/more accurate data

### 2.4 Population

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2.4.1 Population size (individuals or agreed exception)	Unit	number of individuals (i)	
	min	3735000	max 7350000
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	decrease (-)		
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		
<b>2.5 Habitat for the Species</b>			
2.5.1 Surface area - Habitat (km <sup>2</sup> )	57		
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	szukcesszió, területhesználat (nem megfelelő gyepesználat, mesterséges erdőfelújítás), inváziós fajok, védettség		
2.5.5 Short term trend period	2001-2012		
2.5.6 Short term trend direction	decrease (-)		
2.5.7 Long-term trend period	N/A		
2.5.8 Long term trend direction	100		
2.5.9 Area of suitable habitat (km <sup>2</sup> )			
2.5.10 Reason for change	Genuine Improved knowledge/more accurate data		

## 2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
abandonment of pastoral systems, lack of grazing (A04.03)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
intensive mowing or intensification (A03.01)	medium importance (M)	N/A
intensive grazing (A04.01)	high importance (H)	N/A
Forest and Plantation management & use (B02)	high importance (H)	N/A
Sand and gravel extraction (C01.01)	low importance (L)	N/A

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Urbanised areas, human habitation (E01)	low importance (L)	N/A
Industrial or commercial areas (E02)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	medium importance (M)	N/A
accumulation of organic material (K02.02)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	high importance (H)	N/A
Changes in abiotic conditions (M01)	high importance (H)	N/A
reduced fecundity/ genetic depression (K05)	medium importance (M)	N/A
reduction or loss of specific habitat features (J03.01)	high importance (H)	N/A

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

## 2.7 Main Threats

Threat	ranking	pollution qualifier(s)
abandonment of pastoral systems, lack of grazing (A04.03)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
intensive mowing or intensification (A03.01)	medium importance (M)	N/A
intensive grazing (A04.01)	high importance (H)	N/A
Forest and Plantation management & use (B02)	high importance (H)	N/A
Urbanised areas, human habitation (E01)	low importance (L)	N/A
Industrial or commercial areas (E02)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A
roads, motorways (D01.02)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	medium importance (M)	N/A
accumulation of organic material (K02.02)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
fire and fire suppression (J01)	low importance (L)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	high importance (H)	N/A
reduced fecundity/ genetic depression (K05)	medium importance (M)	N/A
Changes in abiotic conditions (M01)	high importance (H)	N/A
reduction or loss of specific habitat features (J03.01)	high importance (H)	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 Inadequate (U1)  
qualifiers stable (=)

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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 (=)
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	3600000
	max	7050000
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	medium importance (M)	Both	Long term
Establish protected areas/sites (6.1)	Legal One-off	low importance (L)	Outside	Maintain Enhance Long term
Other agriculture-related measures (2.0)	Administrative Contractual Recurrent	high importance (H)	Inside	Maintain Enhance
Maintaining grasslands and other open habitats (2.1)	Contractual Recurrent One-off	medium importance (M)	Outside	Maintain Long term
Adapt forest management (3.2)	Legal Administrative Recurrent	low importance (L)	Both	Maintain Enhance Long term

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

**Homoki kikerics** (*Colchicum arenarium*)

II., IV. melléklet

