

# 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	4013
0.2.2 Species name	<b>Carabus hungaricus</b>
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	magyar futrinka

## 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)

Ködöböcz, V. (2011): Futóbogár adatok (Coleoptera: Carabidae) II. Talajcsapdás gyűjtések 1995-2010. – Folia Hist. Nat. Mus. Matr. 35: 55-108.

BÉRCES, S., SZÉL, GY., KÖDÖBÖCZ, V. & KUTASI, Cs. 2008: The distribution, habitat types and nature conservation value of a Natura 2000 beetle, *Carabus hungaricus* Fabricius, 1792 in Hungary. – In: PENEV, L., ERWIN, T. & ASSMANN, T. (eds): Back to the roots and back to the future. Towards a New Synthesis between Taxonomic, Ecological and Biogeographical Approaches in Carabidology. Proceedings of the XIII European Carabidologists Meeting, Blagoevgrad, August 20-24, 2007. Pensoft Series Faunistica No. 75.

Bércecs, S., Elek, Z. (2012), Overlapping generations can balance the fluctuations in the activity patterns of an endangered ground beetle species: long-term monitoring of *Carabus hungaricus* in Hungary. Insect Conservation and Diversity. doi: 10.1111/j.1752-4598.2012.00218.x

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> )	10469
2.3.2 Method - Range surface area	Estimate based on partial data with some extrapolation and/or modelling (2)
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> ) operator approximately equal to (~)
2.3.9 Favourable reference range	unkown No method
2.3.10 Reason for change	Improved knowledge/more accurate data

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

## 2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit	N/A		
	min	max		
2.4.2 Population size (other than individuals)	Unit	number of map 10x10 km grid cells (grids10x10)		
	min	75	max	111
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	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	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	N/A			
2.4.11 Long term trend direction	min	max	confidence interval	
2.4.12 Long-term trend magnitude	N/A			
2.4.13 Long-term trend method	number			
2.4.14 Favourable reference population	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> )	110
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	Good
2.5.4 b) Quality of habitat - method	gyepek természetessége, kezelés, fragmentáltság, táji környezet
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	N/A
2.5.8 Long term trend direction	110
2.5.9 Area of suitable habitat (km <sup>2</sup> )	
2.5.10 Reason for change	Improved knowledge/more accurate data
	Use of different method

## 2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
anthropogenic reduction of habitat connectivity (J03.02)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	medium importance (M)	N/A
Military manoeuvres (G04.01)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A

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

agricultural intensification (A02.01)	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 sources	
<b>2.7 Main Threats</b>		
Threat	ranking	pollution qualifier(s)
anthropogenic reduction of habitat connectivity (J03.02)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	medium importance (M)	N/A
Military manoeuvres (G04.01)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
agricultural intensification (A02.01)	medium importance (M)	N/A
2.7.1 Method used – threats	expert opinion (1)	
<b>2.8 Complementary Information</b>		
2.8.1 Justification of % thresholds for trends		
2.8.2 Other relevant Information		
2.8.3 Trans-boundary assessment		
<b>2.9 Conclusions (assessment of conservation status at end of reporting period)</b>		
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 Favourable (FV) qualifiers N/A	
2.9.5 Overall assessment of Conservation Status	Favourable (FV)	
2.9.5 Overall trend in Conservation Status	N/A	

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

### 3.1 Population

3.1.1 Population Size	Unit	number of map 10x10 km grid cells (grids10x10)
	min	65
	max	75
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

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

<b>3.2.1 Measure</b>	<b>3.2.2 Type</b>	<b>3.2.3 Ranking</b>	<b>3.2.4 Location</b>	<b>3.2.5 Broad Evaluation</b>
Other species management measures (7.0)	Recurrent	high importance (H)	Both	Long term

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

**Magyar futrinka** (*Carabus hungaricus*)

II., IV. melléklet

