

# REPORT ON THE 'MAIN RESULTS OF THE SURVEILLANCE UNDER ARTICLE 17' FOR ANNEX II, IV AND V SPECIES OF DIRECTIVE 92/43/EEC

## NATIONAL LEVEL

### 1. GENERAL INFORMATION

1.1 Member State	HU
1.2 Species code	4004
1.3 Species scientific name	<i>Microtus oeconomus mehelyi</i>
1.4 Alternative species scientific name (Optional)	<i>Alexandromys oeconomus mehelyi</i>
1.5 Common name (Optional)	Északi (patkányfejű) pocok

### 2. MAPS

*Distribution of the species within the Member State concerned.*

2.1 Sensitive species	No
2.2 Year or period	2019–2024
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on extrapolation from a limited amount of data
2.5 Additional maps (Optional)	–
2.6 Additional information (Optional)	–

### 3. INFORMATION RELATED TO ANNEX V SPECIES (ART. 14 OF DIRECTIVE 92/43/EEC)

3.1 Is the species taken in the wild/exploited?	No	
3.2 Are measures needed for the species (only for species in favourable conservation status)?	No	
3.3 Which of the measures in Art. 14 have been taken?	a) regulations regarding access to property	–
	b) temporary or local prohibition of the taking of specimens in the wild and exploitation	–
	c) regulation of the periods and/or methods of taking specimens	–

	d) application of hunting and fishing rules which take account of the conservation of such populations	–					
	e) establishment of a system of licences for taking specimens or of quotas	–					
	f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens	–					
	g) breeding in captivity of animal species as well as artificial propagation of plant species	–					
	h) other measures, if yes, describe	–					
3.4 Hunting bag or quantity taken in the wild regardless of conservation status - for Mammals and Acipenseridae (Fish)	a) Unit	–					
	b) Statistics/ quantity taken	<i>Provide statistics/quantity taken per hunting season or per year (where season is not used) over the reporting period</i>					
		Season/ year 1	Season/ year 2	Season/ year 3	Season/ year 4	Season/ year 5	Season/ year 6
	Min. (raw, i.e. not rounded)						
	Max. (raw, i.e. not rounded)						
	Unknown	–	–	–	–	–	–
3.5 Hunting bag or quantity taken in the wild Method used	–						
3.6 Additional information (Optional)	–						

## BIOGEOGRAPHICAL LEVEL

*Complete for each biogeographical region or marine region concerned.*

### 4. BIOGEOGRAPHICAL AND MARINE REGIONS

4.1 Biogeographical or marine region where the species occurs	Pannonian
4.2 First time reporting	No
4.3 Additional information	–
4.4 Sources of information	Lanszki, Z., Horváth, G. F., Bende, Z., & Lanszki, J. (2020). Differences in the diet and trophic niche of three sympatric carnivores in a marshland. <i>Mammal Research</i> , 65(1), 93-104. Small mammal monitoring by owl pellet analysis in Hungarian Biodiversity Monitoring System. Monitoring reports, 2018, 20019, 2020, 2021, 2022, 2023, 2024, Duna-Ipoly National Park Directorate, Budapest. Monitoring of <i>Alexandromys oeconomicus mehelyi</i> . Monitoring report. 2017-2018 and 2018-2019. Duna-Ipoly National Park Directorate, Budapest.

### 5. RANGE

*Range within the biogeographical/marine region concerned.*

5.1 Surface area (km <sup>2</sup> )	1587	
5.2 Change and reason for change in surface area of range and main reason	<p>Is there a change between reporting periods?</p> <p>yes, due to genuine change</p> <p>yes, due to improved knowledge/more accurate data</p> <p>yes, due to the use of different method</p> <p>yes, but nature of change is unknown</p> <p>The change is mainly due to:</p> <p>unknown</p>	
5.3 Short-term trend Period	2013–2024	
5.4 Short-term trend Direction	decreasing	
5.5 Short-term trend Magnitude (Optional)	a) Estimated Minimum	–
	b) Estimated Maximum	–
	c) Pre-defined range	–
	d) Unknown	–
5.6. Short-term trend Magnitude Type of estimate (Optional)	–	
5.7 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data	
5.8 Long-term trend Period (Optional)	–	
5.9 Long-term trend Direction (Optional)	–	
5.10 Long-term trend Magnitude (Optional)	a) Minimum	–
	b) Maximum	–
5.11 Long-term trend Method used (Optional)	–	
5.12 Favourable reference range	a) –	
	b) <i>if a precise favourable reference range is unknown indicate if the range is:</i> between 51% and 100% smaller than the FRR	
	c) –	
	d) <i>Indicate method used to set reference value (multiple methods can be chosen)</i>	<i>Indicate the quality of information available:</i>
	Reference-based approach	Moderate
5.13 Range when Directive came into force (Optional)	–	
5.14 Additional information (Optional)	–	

<b>6. POPULATION</b>		
<i>Population within the biogeographical/marine region concerned.</i>		
6.1 Year or period	2019–2024	
6.2 Population size (in reporting unit)	a) Unit	number of individuals
	b) Minimum	1800
	c) Maximum	18000
	d) Best single value	–
	e) Class	
6.3 Type of estimate	Best estimate	
6.4 Quality of extrapolation to reporting unit (Optional)	–	
6.5 Additional population size (using population unit other than reporting unit) (Optional)	a) Unit	–
	b) Minimum	–
	c) Maximum	–
	d) Best single value	–
6.6 Type of estimate (Optional)	–	
6.7 Population size Method used	Based mainly on extrapolation from a limited amount of data	
6.8 Change and reason for change in population size and main reason	Is there a change between reporting periods? yes, due to genuine change	
	The change is mainly due to: genuine change	
6.9 Short-term trend Period	2013–2024	
6.10 Short-term trend Direction	decreasing	
6.11 Short-term trend Magnitude	a) Estimated Minimum	–
	b) Estimated Maximum	–
	c) Pre-defined range	-25 – -13%
	d) Unknown	–
6.12 Short-term trend Magnitude Type of estimate	Best estimate	
6.13 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data	

6.14 Long-term trend Period (Optional)	–	
6.15 Long-term trend Direction (Optional)	–	
6.16 Long-term trend Magnitude (Optional)	a) Minimum	–
	b) Maximum	–
	c) Confidence interval	–
6.17 Long-term trend Method used (Optional)	–	
6.18 Favourable reference population	a) Population size (with unit):	
	b) if a precise favourable reference population is unknown indicate if the population is: between 51% and 100% smaller than the FRP	
	c) Indicate if favourable reference population is unknown: –	
	d) Indicate method used to set reference value (multiple methods can be chosen)	Indicate the quality of information available:
	Reference-based approach	Low
6.19 Population size when Directive came into force (Optional)	–	
6.20 Additional Information (Optional)		

## 7. HABITAT FOR THE SPECIES

7.1 Sufficiency of area and quality of occupied habitat	a) Is area of occupied habitat sufficient (for long-term survival)? No	
	b) Is quality of occupied habitat sufficient (for long-term survival)? Yes	
	c) If NO to a) is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)? Yes	
7.2 Sufficiency of area and quality of occupied habitat Method used	Area of habitat: Based mainly on extrapolation from a limited amount of data	Quality of habitat: Based mainly on extrapolation from a limited amount of data

7.3 Short-term trend Period	2013–2024
7.4 Short-term trend Direction	decreasing
7.5 Short-term trend Method used	Based mainly on expert opinion with very limited data
7.6 Long-term trend Period (Optional)	–
7.7 Long-term trend Direction (Optional)	–
7.8 Long-term trend Method used (Optional)	–
7.9 Additional information (Optional)	–

## 8. MAIN PRESSURES AND THREATS

### 8.1 Characterisation of pressures

Pressure	Timing	Scope (proportion of population affected)	Influence (on population or habitat of the species)	Invasive alien species of Union concern	Other invasive alien species
<b>PL02</b> Water regimes - Drainage	ongoing and likely to be in the future	majority 50 – 90%	High influence		
<b>PL05</b> Water regimes - Modification of hydrological flow	ongoing and likely to be in the future	majority 50 – 90%	High influence		
<b>PM07</b> Natural - Natural processes without direct or indirect influence from human activities or climate change	ongoing and likely to be in the future	majority 50 – 90%	Medium influence		
<b>PA06</b> Agriculture - Mowing or cutting of grasslands	ongoing and likely to be in the future	majority 50 – 90%	High influence		
<b>PA07</b> Agriculture - Intensive grazing or overgrazing by livestock	ongoing and likely to be in the future	majority 50 – 90%	High influence		
<b>PJ03</b> Climate change - Changes in precipitation regimes	ongoing and likely to be in the future	majority 50 – 90%	High influence		
<b>PJ13</b> Climate change - Change of species distribution (natural newcomers)	ongoing and likely to be in the future	majority 50 – 90%	Medium influence		
<b>PB01</b> Forestry - Conversion to forest from other land uses, or afforestation	ongoing and likely to be in the future	majority 50 – 90%	Medium influence		

<b>PE01</b> Transport - Roads, paths, railroads and related infrastructure	ongoing and likely to be in the future	majority 50 – 90%	High influence		
<b>PA09</b> Agriculture - Burning for agriculture	ongoing and likely to be in the future	majority 50 – 90%	High influence		
<b>PI01</b> Problematic species - Invasive alien species of Union concern	ongoing and likely to be in the future	majority 50 – 90%	High influence	<i>Asclepias syriaca</i>	
<b>PI02</b> Problematic species - Other invasive alien species (other than species of Union concern)	ongoing and likely to be in the future	majority 50 – 90%	High influence		<i>Acer negundo</i> <i>Solidago sp.</i>
8.2 Methods used (Optional)	–				
8.3 Sources of information (Optional)	–				
8.4 Additional information (Optional)	–				

## 9. CONSERVATION MEASURES

9.1 Status of measures	<p>Are measures needed?</p> <p>Yes</p> <p>Status of measures:</p> <p>Part of measures identified have been taken</p>
9.2 Scope of measures taken	<50%
9.3 Main purpose of the measures taken	<p>A. Indicate the main purpose(s) of measures taken:</p> <p>Maintain the current range, population and/or habitat for the species Restore the habitat of the species (related to 'Habitat for the species')</p> <p>B. The main (primary) purpose:</p> <p>Maintain current state</p>
9.4 Location of the measures taken	Only inside Natura 2000
9.5 Response to the measures (when the measures start to neutralize the pressure(s) and produce positive effects)	Short-term response (within the current reporting period, 2019–2024)

9.6 List of main conservation measures	<p>MS03 – Restoration of habitat of species from the directives</p> <p>MA09 – Manage the use of natural and synthetic fertilisers as well as chemicals in agricultural for plant and animal production</p> <p>MA10 – Reduce/eliminate point or diffuse source pollution to surface or ground waters (including marine) from agricultural activities</p> <p>MA13 – Manage agricultural drainage and water abstraction (incl. the restoration of drained or hydrologically altered habitats)</p> <p>MI02 – Management, control or eradication of established invasive alien species of Union concern</p> <p>MI04 – Restoration of habitats affected by invasive alien species (incl. of Union concern and others)</p> <p>MM01 – Management of habitats (others than agriculture and forest) to slow, stop or reverse natural processes that occur without direct or indirect influence from human activities or climate change</p> <p>ME07 – Other measures related to transport</p>
9.7 Additional information (Optional)	–

## 10. FUTURE PROSPECTS

10.1 Future prospects of parameters	a) Range	Poor
	b) Population	Poor
	c) Habitat of the species	Poor
10.2 Additional information (Optional)	–	

## 11. CONCLUSIONS

### *Assessment of conservation status at end of reporting period*

11.1 Range	Bad (U2)	
11.2 Population	Bad (U2)	
11.3 Habitat for the species	Inadequate (U1)	
11.4 Future prospects	Inadequate (U1)	
11.5 Overall assessment of Conservation Status	Bad (U2)	
11.6 Overall trend in Conservation Status	deteriorating	
11.7 Change and reasons for change in conservation status and conservation status trend	Overall assessment of conservation status (11.5)	
	<p><i>Indicate whether there is a change from the previous reporting round and (if yes) the nature of that change.</i></p>	<p>yes, due to improved knowledge/more accurate data</p> <p>yes, due to the use of different method (including taxonomical change or use of different thresholds)</p>

	<i>The change is mainly due to:</i>	the use of a different method
	Overall trend in conservation status (11.6)	
	<i>Indicate whether there is a change from the previous reporting round and (if yes) the nature of that change.</i>	yes, due to improved knowledge/more accurate data
	<i>The change is mainly due to:</i>	improved knowledge or more accurate data
11.8 Additional information (Optional)	–	

## 12. NATURA 2000 (PROPOSED SITES OF COMMUNITY IMPORTANCE (PSCIs), SITES OF COMMUNITY IMPORTANCE (SCIs) AND SPECIAL AREAS OF CONSERVATION (SACs) COVERAGE FOR ANNEX II SPECIES OF DIRECTIVE 92/43/EEC

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)	a) Unit	number of individuals
	b) Minimum	1800
	c) Maximum	18000
	d) Best single value	–
12.2 Type of estimate	Best estimate	
12.3 Additional population size (using population unit other than reporting unit in field 6.2) (Optional)	a) Unit	–
	b) Minimum	–
	c) Maximum	–
	d) Best single value	–
12.4 Type of estimate (Optional)	–	
12.5 Population size inside the network Method used	Based mainly on extrapolation from a limited amount of data	
12.6 Short-term trend of population size within the network Direction	decreasing	

12.7 Short-term trend of population size within the network Method used	Based mainly on extrapolation from a limited amount of data
12.8 Short-term trend of habitat for the species within the network Direction	decreasing
12.9 Short-term trend of habitat for the species within the network Method used	Based mainly on extrapolation from a limited amount of data
12.10 Additional information (Optional)	–

### 13. COMPLEMENTARY INFORMATION

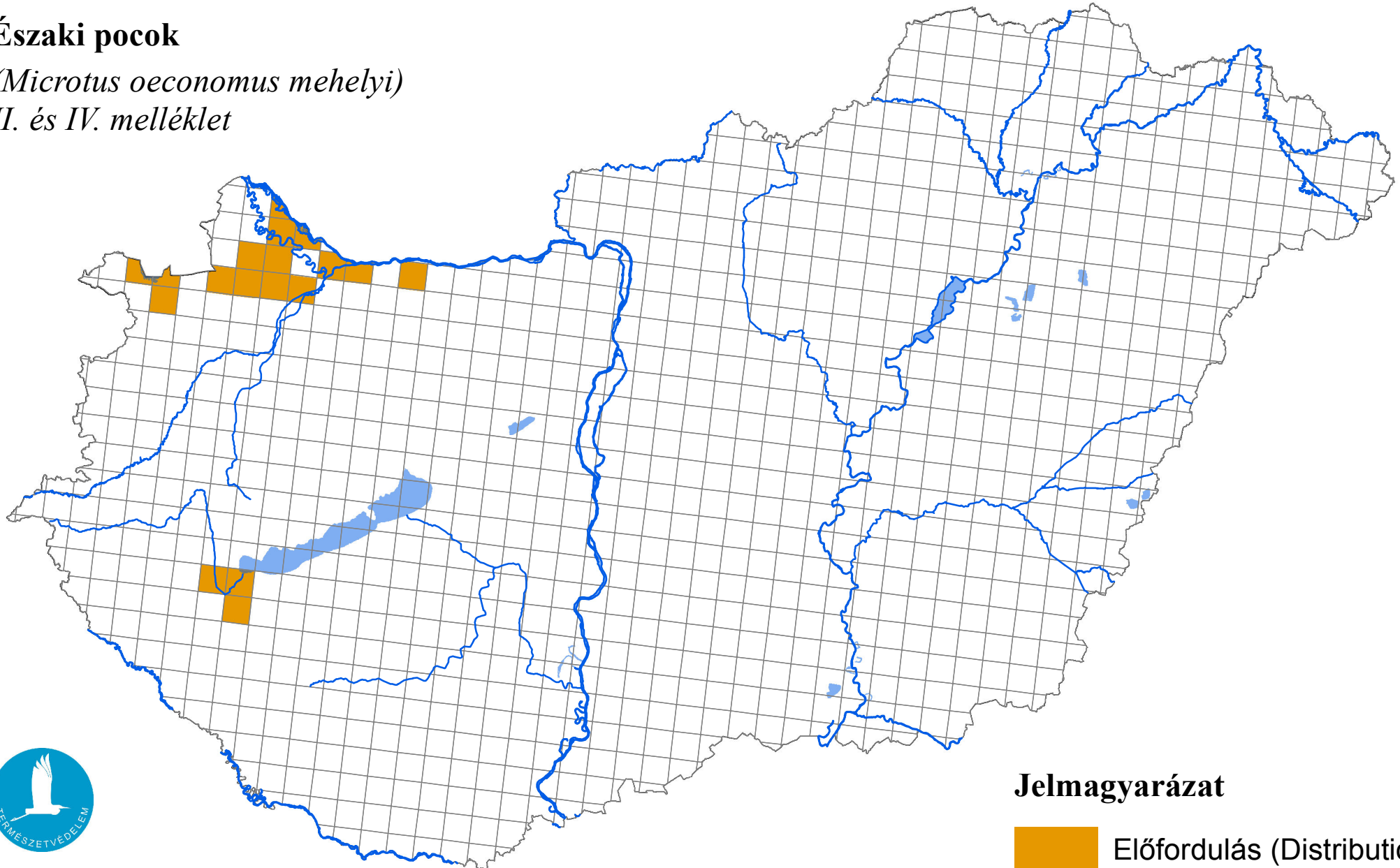
13.1 Justification of % thresholds for trends	–
13.2 Trans-boundary assessment	–
13.3 Other relevant information	–

# Az élőhelyvédelmi irányelv 17. cikke szerinti országjelentés, 2025

## Északi pocok

(*Microtus oeconomus mehelyi*)

II. és IV. melléklet



Forrás: Agrárminisztérium,  
Természetmegőrzési Főosztály

### Jelmagyarázat

 Előfordulás (Distribution)

0 25 50 Kilometers