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

NATIONAL LEVEL	

1. General information

1.1 Member State	**HU**
1.2 Species code	**4004**
1.3 Species scientific name	**Microtus oeconomus mehelyi**
1.4 Alternative species scientific name	
1.5 Common name (in national language)	északi (patkányfejű) pocok

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2013-2018
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	No

3. Information related to Annex V Species (Art. 14)

3.1 Is the species taken in the wild/exploited?	No	
3.2 Which of the measures in Art. 14 have been taken?	a) regulations regarding access to property	No
	b) temporary or local prohibition of the taking of specimens in the wild and exploitation	No
	c) regulation of the periods and/or methods of taking specimens	No
	d) application of hunting and fishing rules which take account of the conservation of such populations	No
	e) establishment of a system of licences for taking specimens or of quotas	No
	f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens	No
	g) breeding in captivity of animal species as well as artificial propagation of plant species	No
	h) other measures	No

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3.3 Hunting bag or quantity taken in the wild for Mammals and Acipenseridae (Fish)	a) Unit						
	b) Statistics/ quantity taken	Provide statistics/quantity per hunting season or per year (where season is not used) over the reporting period					
		Season/ year 1	Season/ year 2	Season/ year 3	Season/ year 4	Season/ year 5	Season/ year 6
	Min. (raw, ie. not rounded)						
	Max. (raw, ie. not rounded)						
	Unknown	No	No	No	No	No	No

3.4. Hunting bag or quantity taken in the wild Method used	
3.5. Additional information	

BIOGEOGRAPHICAL LEVEL

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs	**Pannonian (PAN)**
4.2 Sources of information	Purger, J.J. 2014: Survey of the small mammal fauna in north-western Somogy county (Hungary), based on Barn Owl Tyto alba (Scopoli, 1769) pellet analysis…

Purger, J. J. 2013: Kisemlősök faunisztikai felmérése Somogy megye északkeleti részén, gyöngybagoly Tyto alba (Scopoli, 1769) köpetek vizsgálata alapján|[Small mammal fauna survey in north-eastern part of Somogy county (Hungary), based on Barn Owl Tyto alba (Scopoli, 1769) pellet analysis]. Kaposvári Rippl-Rónai Múzeum Közleményei, 1, 81-90.

Kalmár, S. & Riezing, N. 2017. Az északi pocok (Microtus oeconomus mehelyi) élőhelyválasztása és állományainak vizsgálata Győr-Moson-Sopron megyében. Rence 2: 77-97.

Riezingm N. & Kalmár, S. 2014: Északi pocok (Microtus oeconomus mehelyi). Temészetvédelmi Közlemények 20: 50-58.

Lanszki, L. & Magyari, M. 2014: Az északi pocok (Microtus oeconomus) új adata a Kis-Balaton II. ütemén. Natura Somogyiensis 24: 287-292.

Lanszki, J., Rozner, G. & Széles, G. 2015: A Pogány-völgyi rétek Natura 2000 terület kisemlősközösségeinek vizsgálata, különös tekintettel az északi pocok (Microtus oeconomus) előfordulására. Nature Somogyiensis 27: 107-114

5. Range

5.1 Surface area	5944	
5.2 Short-term trend Period	2007-2018	
5.3 Short-term trend Direction	Uncertain (u)	
5.4 Short-term trend Magnitude	a) Minimum	b) Maximum

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5.5 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data	
5.6 Long-term trend Period		
5.7 Long-term trend Direction		
5.8 Long-term trend Magnitude	a) Minimum	b) Maximum
5.9 Long-term trend Method used		
5.10 Favourable reference range	a) Area (km²)	
	b) Operator	More than (>)
	c) Unknown	
	d) Method	
5.11 Change and reason for change in surface area of range	Improved knowledge/more accurate data	
	The change is mainly due to:	Improved knowledge/more accurate data
5.12 Additional information		

6. Population

6.1 Year or period	2013-2018	
6.2 Population size (in reporting unit)	a) Unit	number of individuals (i)
	b) Minimum	2250
	c) Maximum	22800
	d) Best single value	
6.3 Type of estimate	Best estimate	
6.4 Additional population size (using population unit other than reporting unit)	a) Unit	
	b) Minimum	
	c) Maximum	
	d) Best single value	
6.5 Type of estimate		
6.6 Population size Method used	Based mainly on extrapolation from a limited amount of data	
6.7 Short-term trend Period	2007-2018	
6.8 Short-term trend Direction	Uncertain (u)	
6.9 Short-term trend Magnitude	a) Minimum	
	b) Maximum	
	c) Confidence interval	
6.10 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data	
6.11 Long-term trend Period		
6.12 Long-term trend Direction		
6.13 Long-term trend Magnitude	a) Minimum	
	b) Maximum	
	c) Confidence interval	
6.14 Long-term trend Method used		

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6.15 Favourable reference population (using the unit in 6.2 or 6.4)	a) Population size	
	b) Operator	More than (>)
	c) Unknown	
	d) Method	

6.16 Change and reason for change in population size	Improved knowledge/more accurate data
	Use of different method
	The change is mainly due to: Improved knowledge/more accurate data

6.17 Additional information

7. Habitat for the species

7.1 Sufficiency of area and quality of occupied habitat	a) Are area and quality of occupied habitat sufficient (for long-term survival)?	No
	b) 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	Based mainly on extrapolation from a limited amount of data
7.3 Short-term trend Period	2007-2018
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	
7.7 Long-term trend Direction	
7.8 Long-term trend Method used	
7.9 Additional information	

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Mowing or cutting of grasslands (A08)	H
Drainage (K02)	H
Modification of hydrological flow (K04)	H
Abiotic natural processes (e.g. erosion, silting up, drying out, submersion, salinization) (L01)	H
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02)	H
Intensive grazing or overgrazing by livestock (A09)	M
Conversion to forest from other land uses, or afforestation (excluding drainage) (B01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M

Droughts and decreases in precipitation due to climate change (N02)	M
Change of species distribution (natural newcomers) due to climate change (N08)	M

Threat	Ranking
Mowing or cutting of grasslands (A08)	H
Drainage (K02)	H
Modification of hydrological flow (K04)	H
Abiotic natural processes (e.g. erosion, silting up, drying out, submersion, salinization) (L01)	H
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02)	H
Intensive grazing or overgrazing by livestock (A09)	M
Conversion to forest from other land uses, or afforestation (excluding drainage) (B01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Droughts and decreases in precipitation due to climate change (N02)	M
Change of species distribution (natural newcomers) due to climate change (N08)	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures	a) Are measures needed?	Yes
	b) Indicate the status of measures	Measures identified and taken

9.2 Main purpose of the measures taken	Restore the habitat of the species (related to 'Habitat for the species')
9.3 Location of the measures taken	Only inside Natura 2000
9.4 Response to the measures	Medium-term results (within the next two reporting periods, 2019-2030)

9.5 List of main conservation measures

Manage drainage and irrigation operations and infrastructures in agriculture (CA15)
Other measures related to transport (CE07)
Management of habitats (others than agriculture and forest) to slow, stop or reverse natural processes (CL01)
Improvement of habitat of species from the directives (CS03)

9.6 Additional information

10. Future prospects

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

11. Conclusions

11.1. Range	Unfavourable - Inadequate (U1)
11.2. Population	Unfavourable - Inadequate (U1)
11.3. Habitat for the species	Unfavourable - Inadequate (U1)
11.4. Future prospects	Unfavourable - Inadequate (U1)
11.5 Overall assessment of Conservation Status	Unfavourable - Inadequate (U1)
11.6 Overall trend in Conservation Status	Unknown (x)
11.7 Change and reasons for change in conservation status and conservation status trend	a) Overall assessment of conservation status
	No change
	The change is mainly due to:
	b) Overall trend in conservation status
	Use of different method
	The change is mainly due to: Use of different method
11.8 Additional information	Real Overall trend in Conservation Status is deteriorating but it does not fit to the matrix (uncertain is not equal to unknown)

12. Natura 2000 (pSCIs, SCIs and SACs) coverage for Annex II species

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 (i)
	b) Minimum	2250
	c) Maximum	22800
	d) Best single value	
12.2 Type of estimate	Best estimate
12.3 Population size inside the network Method used	Based mainly on extrapolation from a limited amount of data
12.4 Short-term trend of population size within the network Direction	Uncertain (u)
12.5 Short-term trend of population size within the network Method used	Based mainly on extrapolation from a limited amount of data
12.6 Additional information	

13. Complementary information

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13.1 Justification of % thresholds for trends

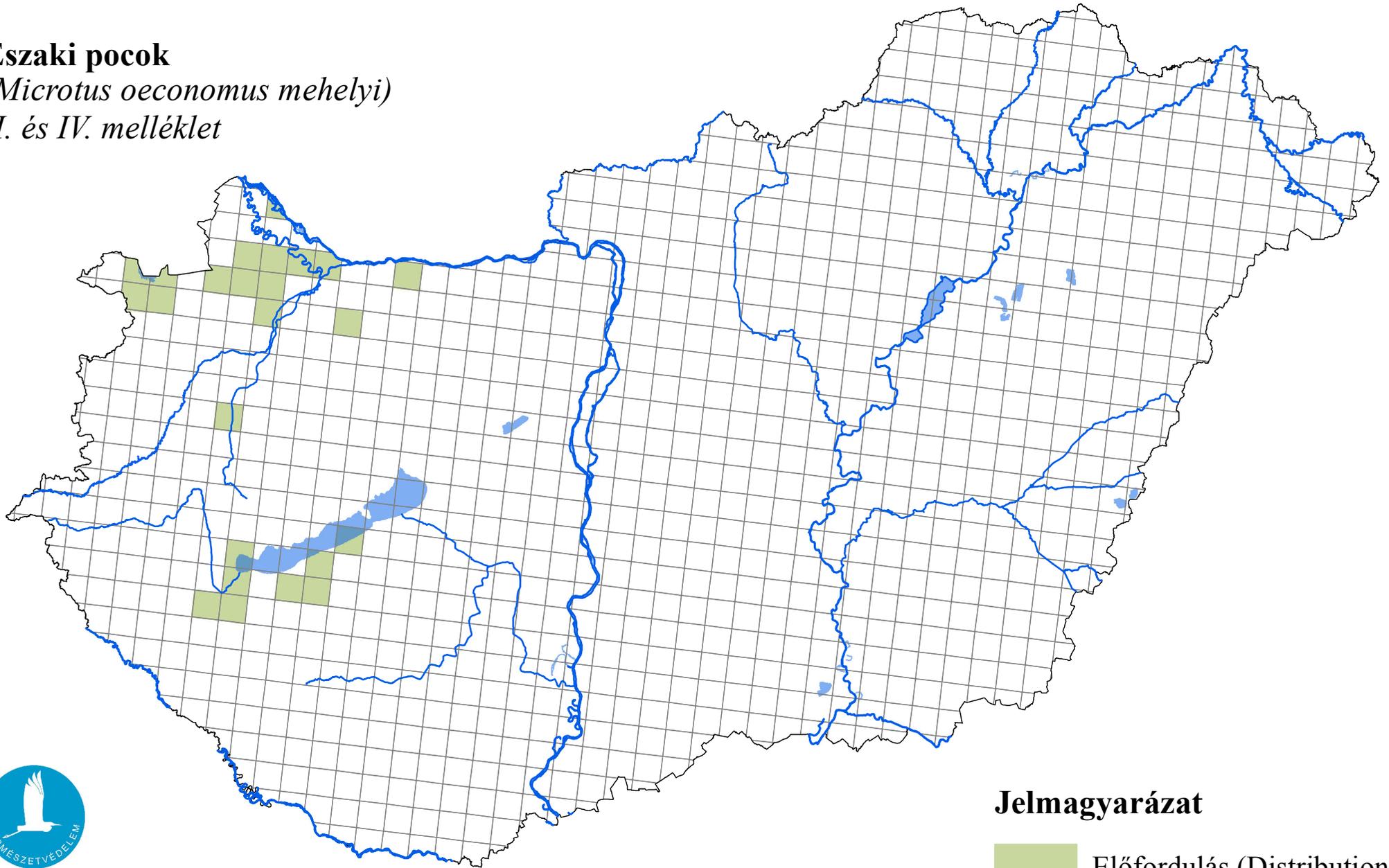13.2 Trans-boundary assessment

13.3 Other relevant Information

Az élőhelyvédelmi irányelv 17. cikke alapján készített országjelentés 2019

Északi pocok
(Microtus oeconomus mehelyi)
II. és IV. melléklet

Jelmagyarázat

Előfordulás (Distribution)

0   25   50 Kilometers

Forrás: Agrárminisztérium,
Természetmegőrzési Főosztály