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	1898
1.3 Species scientific name	*Eleocharis carniolica*
1.4 Alternative species scientific name (Optional)	
1.5 Common name (Optional)	sűrű csetkáka

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	*Provide statistics/quantity taken 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, 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	Monitoring reports (2019-2024) of Hungarian Biodiversity Monitoring System

5. RANGE

Range within the biogeographical/marine region concerned.

5.1 Surface area (km^2)	2126
5.2 Change and reason for change in surface area of range and main reason	Is there a change between reporting periods? no, there is no change

	The change is mainly due to:	
5.3 Short-term trend Period	2013–2024	
5.4 Short-term trend Direction	stable	
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) *if a precise favourable reference range is unknown indicate if the range is:* approximately equal to the favourable reference range (less than 2% smaller)	
	c) –	
	d) *Indicate method used to set reference value (multiple methods can be chosen)*	*Indicate the quality of information available:*
	Reference-based approach	Moderate
5.13 Range when Directive came into force (Optional)	–	
5.14 Additional information (Optional)	–	

6. POPULATION

Population within the biogeographical/marine region concerned.

6.1 Year or period	2019–2024	
6.2 Population size *(in reporting unit)*	a) Unit	–
	b) Minimum	–

	c) Maximum	–
	d) Best single value	–
	e) Class	
6.3 Type of 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	number of map 1x1 km grid cells
	b) Minimum	26
	c) Maximum	48
	d) Best single value	–
6.6 Type of estimate (Optional)	Best estimate	
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? no, there is no change	
	The change is mainly due to:	
6.9 Short-term trend Period	2013–2024	
6.10 Short-term trend Direction	stable	
6.11 Short-term trend Magnitude	a) Estimated Minimum	–
	b) Estimated Maximum	–
	c) Pre-defined range	–
	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: approximately equal to the favourable reference population (less than 5% smaller)	
	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	Moderate
6.19 Population size when Directive came into force (Optional)	–	
6.20 Additional Information (Optional)	Due to methodological constraints, it is not possible to estimate the population size of Eleocharis carniolica in square meters (m²), as required by the reporting format of the European Commission. The primary reason for this limitation is that field data collected by researchers of the national park directorates in Hungary are not recorded in units of square meters. Instead, the surveys are conducted using presence-absence and occurrence-based methods within broader spatial frameworks. Furthermore, the available data on the species' density are either lacking or highly variable, making it scientifically unreliable to extrapolate population size retrospectively in m². Any attempt to convert these observations into m² units would result in a high degree of uncertainty and would not accurately reflect the species' real population size or distribution. Therefore, for Eleocharis carniolica, we have opted to report the population size based on the number of occupied 1x1 km UTM grid cells, like in 2019. This spatial unit aligns with the structure of our existing monitoring data and provides a consistent, repeatable, and interpretable basis for population assessment. We respectfully submit this approach as the most scientifically sound and transparent method available for reporting on this species under Article 17.	

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)? Unknown b) Is quality of occupied habitat sufficient (for long-term survival)? No c) If NO to a) is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)? –

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	stable	
7.5 Short-term trend Method used	Based mainly on extrapolation from a limited amount of 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
PJ03 Climate change - Changes in precipitation regimes	ongoing and likely to be in the future	whole >90%	High influence		
PL02 Water regimes - Drainage	ongoing and likely to be in the future	majority 50 – 90%	Medium influence		
PL01 Water regimes - Abstraction from groundwater, surface water or mixed water	ongoing and likely to be in the future	majority 50 – 90%	Medium influence		
PI02 Problematic species - Other invasive alien species (other than species of Union concern)	ongoing and likely to be in the future	minority <50%	Medium influence		*Bidens frondosa* *Acer negundo*
PF13 Infrastructure - Drainage, land reclamation and conversion of wetlands, marshes, bogs, etc. for built-up areas	only in future	–	–		
PM02 Natural - Flooding	only in future	–	–		

PM07 Natural - Natural processes without direct or indirect influence from human activities or climate change	ongoing and likely to be in the future	whole >90%	Medium influence		

8.2 Methods used (Optional)	–
8.3 Sources of information (Optional)	–
8.4 Additional information (Optional)	–

9. CONSERVATION MEASURES

9.1 Status of measures	Are measures needed? Yes Status of measures: Measures identified, but none yet taken
9.2 Scope of measures taken	–
9.3 Main purpose of the measures taken	– –
9.4 Location of the measures taken	–
9.5 Response to the measures *(when the measures start to neutralize the pressure(s) and produce positive effects)*	–
9.6 List of main conservation measures	MJ02 – Implement climate change adaptation measures 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 MI03 – Management, control or eradication of other invasive alien species MF08 – Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats). MM02 – Minimise/prevent impacts of geological and natural catastrophes
9.7 Additional information (Optional)	–

10. FUTURE PROSPECTS

10.1 Future prospects of parameters	a) Range	Unknown
	b) Population	Unknown

	c) Habitat of the species	Unknown
10.2 Additional information (Optional)	–	

11. CONCLUSIONS

Assessment of conservation status at end of reporting period		
11.1 Range	Favourable (FV)	
11.2 Population	Favourable (FV)	
11.3 Habitat for the species	Inadequate (U1)	
11.4 Future prospects	Unknown (XX)	
11.5 Overall assessment of Conservation Status	Inadequate (U1)	
11.6 Overall trend in Conservation Status	stable	
11.7 Change and reasons for change in conservation status and conservation status trend	Overall assessment of conservation status (11.5)	
	Indicate whether there is a change from the previous reporting round and (if yes) the nature of that change.	yes, due to the use of different method (including taxonomical change or use of different thresholds)
	The change is mainly due to:	the use of a different method
	Overall trend in conservation status (11.6)	
	Indicate whether there is a change from the previous reporting round and (if yes) the nature of that change.	no, there is no difference
	The change is mainly due to:	
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	a) Unit	–
	b) Minimum	–
	c) Maximum	–

where the species is present)	d) Best single value	–
12.2 Type of estimate	–	
12.3 Additional population size (using population unit other than reporting unit in field 6.2) (Optional)	a) Unit	number of map 1x1 km grid cells
	b) Minimum	26
	c) Maximum	48
	d) Best single value	–
12.4 Type of estimate (Optional)	Best estimate	
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	stable	
12.7 Short-term trend of population size within the network Method used	Complete survey or a statistically robust estimate	
12.8 Short-term trend of habitat for the species within the network Direction	stable	
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)	–	

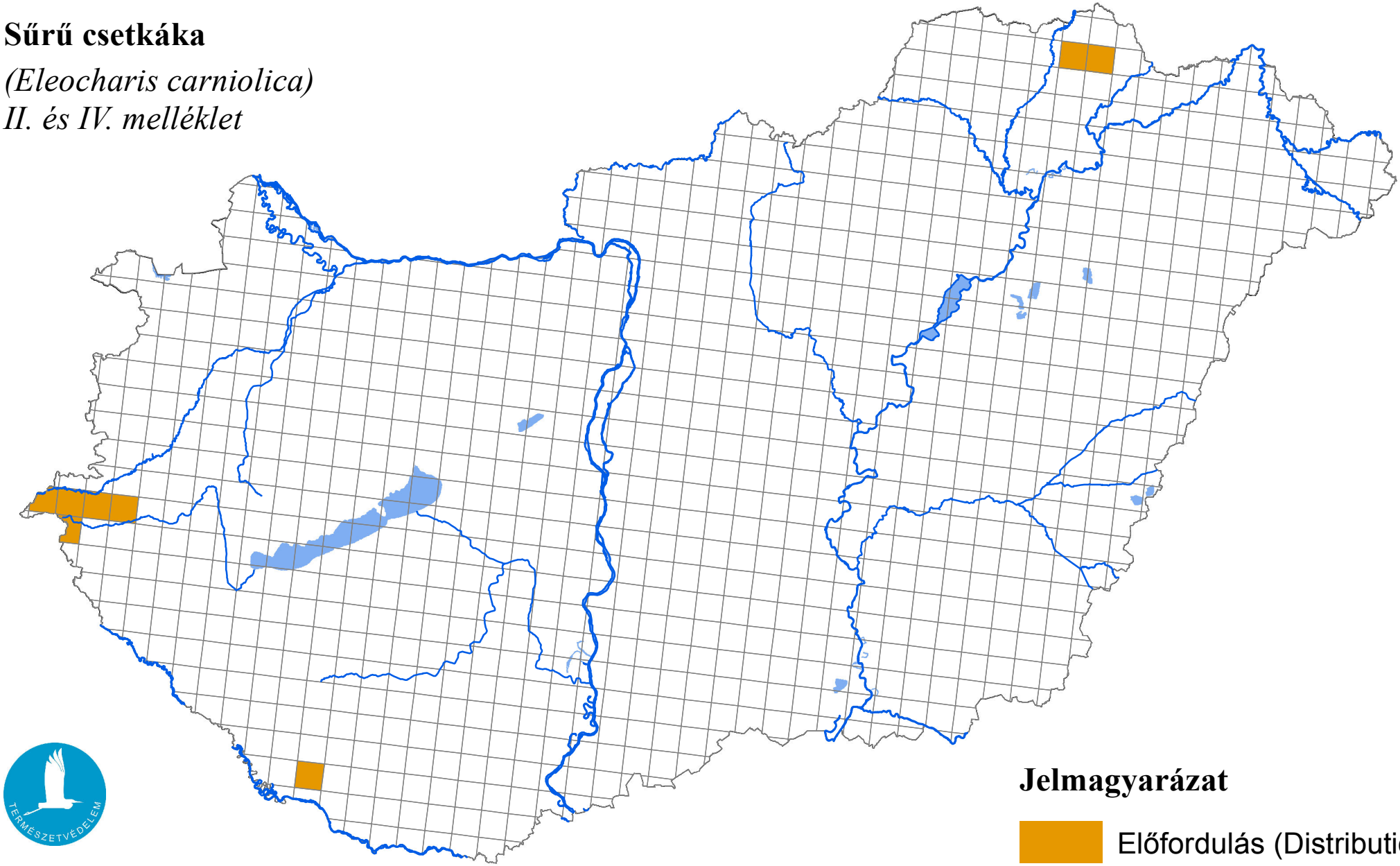
13. COMPLEMENTARY INFORMATION

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

Sűrű csetkáka

(Eleocharis carniolica)
II. és IV. melléklet



Forrás: Agrárminisztérium,
Természetmegőrzési Főosztály