

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	1056
1.3 Species scientific name	<i>Parnassius mnemosyne</i>
1.4 Alternative species scientific name	
1.5 Common name (in national language)	kis Apolló-lepke

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2010-2018
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

Haraszthy L. (szerk.) (2014): Natura 2000 fajok és élőhelyek Magyarországon. ProVértés Közalapítvány, Csákvár, 955 pp.
A Nemzeti Biodiverzitás-monitorozó Rendszer 2013-2018 időszakban végzett felméréseinek jelentései
Natura 2000 fenntartási tervek megalapozó adatai
http://stvsz.com/wp-content/uploads/2017/07/vedett_allatfajok_elterjedesi_atlasza_2016_dig.pdf
Gergely P., Górá Á., Hudák T., Ilonczai Z., Szombathelyi E. (2017): Nappali lepkéink – Határozó terepre és természetfotókhoz / A Field Guide to the Butterflies of Hungary. Kitaibel Kiadó, pp. 1-264.
VOZÁR Á., KOCSIS M. (2014): Védett lepkefajok előfordulásai, állományai a Heves–Borsodi-dombság területén. – In: DICZHÁZI I. & SCHMOTZER A. (eds): Apoka. A Heves–Borsodi-dombság és az Upponyi-hegység élővilága. Bükki Nemzeti Park Igazgatóság, Eger, pp., 97-114 pp.
KOZMA P: (2014): Adatok a Hevesi-sík nagylepkefaunájának ismeretéhez (Macrolepidoptera). – In: SCHMOTZER A. (eds): Szikfok. Dél-hevesi tanulmányok. Bükki Nemzeti Park Igazgatóság, Eger, pp., 97-116 pp.
Szigeti V.; Harnos A.; Kőrösi Á.; Bella M.; Kis J. (2015) – Kis Apolló-lepkék (Parnassius mnemosyne) élőhelyhasználata nektárforrásuk és lárvális tápnövényük függvényében; Természetvédelmi Közlemények; Vol. 21.; 311-320 pp.
https://www.researchgate.net/publication/320596716_A_KIS_APOLLOLEPKE_PARNASSIUS_MNEMOSYNE_POPULACIO_BECSLESE_JELOLES-VISSZAFOGAS_MODSZERREL
K. PECSENYE – J. P. TÓTH – J. BERCZKI – N. SZOLNOKI – ZOLTÁN VARGA. (2016):

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Genetic structure of *Parnassius mnemosyne* (Lepidoptera: Papilionidae) populations in the Carpathian Basin. *Organisms Diversity & Evolution* 16 (4). <https://www.izeltlabuak.hu/faj/kis-apollo-lepke/talalatok> (Licenc: CC BY 4.0)

5. Range

5.1 Surface area	26528
5.2 Short-term trend Period	2007-2018
5.3 Short-term trend Direction	Stable (0)
5.4 Short-term trend Magnitude	a) Minimum b) Maximum
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 (km ²) b) Operator Approximately equal to (≈) 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 map 1x1 km grid cells (grids1x1) b) Minimum c) Maximum d) Best single value 1070
6.3 Type of estimate	Minimum
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	Stable (0)

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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	
6.15 Favourable reference population (using the unit in 6.2 or 6.4)	a) Population size b) Operator Approximately equal to (≈) 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)? Yes b) 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	Based mainly on extrapolation from a limited amount of data
7.3 Short-term trend Period	2007-2018
7.4 Short-term trend Direction	Uncertain (u)
7.5 Short-term trend Method used	Based mainly on extrapolation from a limited amount of 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
Conversion to other types of forests including monocultures (B02)	M

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Replanting with or introducing non-native or non-typical species (including new species and GMOs) (B03)	M
Abandonment of traditional forest management (B04)	M
Logging without replanting or natural regrowth (B05)	H
Clear-cutting, removal of all trees (B09)	M
Tillage practices in forestry and other soil management practices in forestry (B17)	H
Management of fishing stocks and game (G08)	M
Other invasive alien species (other than species of Union concern) (I02)	M
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02)	M
Other forestry activities, excluding those relating to agro-forestry (B29)	M

Threat	Ranking
Conversion to other types of forests including monocultures (B02)	M
Replanting with or introducing non-native or non-typical species (including new species and GMOs) (B03)	M
Abandonment of traditional forest management (B04)	M
Logging without replanting or natural regrowth (B05)	H
Clear-cutting, removal of all trees (B09)	M
Tillage practices in forestry and other soil management practices in forestry (B17)	H
Management of fishing stocks and game (G08)	M
Other invasive alien species (other than species of Union concern) (I02)	M
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02)	M
Other forestry activities, excluding those relating to agro-forestry (B29)	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

- a) Are measures needed? No
- b) Indicate the status of measures

9.2 Main purpose of the measures taken

9.3 Location of the measures taken

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9.4 Response to the measures

9.5 List of main conservation measures

9.6 Additional information

10. Future prospects

10.1 Future prospects of parameters	a) Range	Good
	b) Population	Good
	c) Habitat of the species	Poor

10.2 Additional information

11. Conclusions

11.1. Range	Favourable (FV)
11.2. Population	Favourable (FV)
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	Stable (=)
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 No change The change is mainly due to:
11.8 Additional information	

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 b) Minimum c) Maximum d) Best single value
12.2 Type of estimate	
12.3 Population size inside the network Method used	
12.4 Short-term trend of population size within the network Direction	

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12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

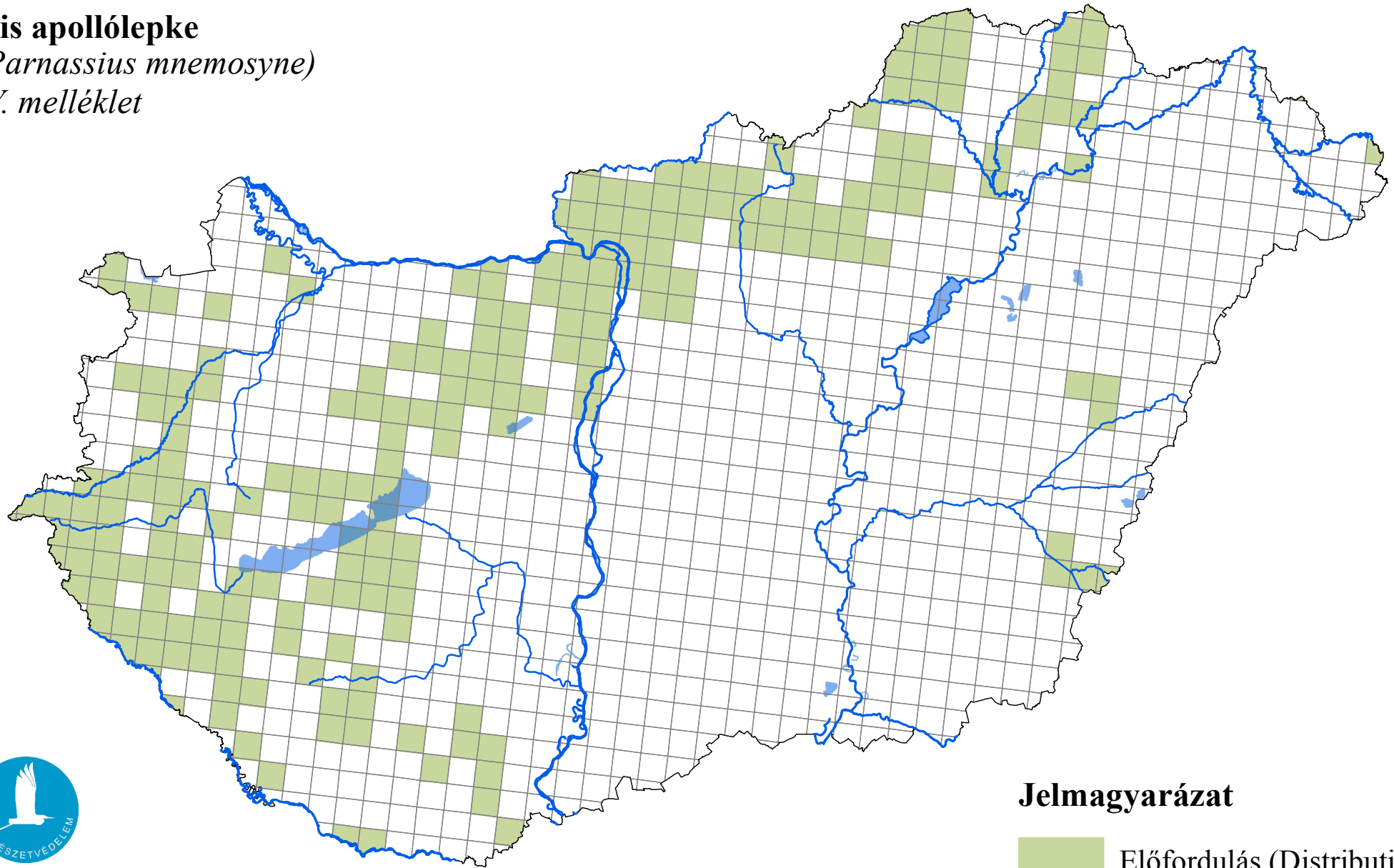
13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

Az élőhelyvédelmi irányelv 17. cikke alapján készített országjelentés 2019

Kis apollólepke
(*Parnassius mnemosyne*)
IV. melléklet



Forrás: Agrárminisztérium,
Természetmegőrzési Főosztály

Jelmagyarázat

