# 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 | 2093 |
| 1.3 Species scientific name | *Pulsatilla grandis* |
| 1.4 Alternative species scientific name (Optional) | |
| 1.5 Common name (Optional) | leánykökörcsin |

### 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 | Complete survey or a statistically robust estimate |
| 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 | Bauer N. (2019): A Velencei-hegység növényföldrajzi és florisztikai kutatásának eredményei. Kitaibelia 24 (2) pp. 117-152 DOI:10.17542/kit.24.117 (https://real-j.mtak.hu/13888/2/2019_24_2.pdf).<br>Mészáros T. (2021): Ritka és védett növényfajok (PULSATILLA GRANDIS WENDER. és ADONIS VERNALIS L.) Autökológiai vizsgálata. Diss. Magyar Agrár-és Élettudományi Egyetem, 118p.<br>Mészáros T., Józan Zs. (2020):A Pulsatilla grandis aculeata megporzóinak változása 2018 és 2020 között. Folia Musei Historico-Naturlis Bakonyiensis. A Bakonyi Természettudományi Múzeum Közleményei 37:75–83.<br>Mészáros T., Tóth S. (2020): Diversity of Diptera flower visitors of Pulsatilla grandis in the Bakony mts. (Hungary). Studia Botanica Hungarica 51(1):57–66.<br>Gáti E., Molnár Cs.,Juhász M. (2022): Kutatási jelentés a Natura 2000 jelölőfaj leánykökörcsin (Pulsatilla grandis) 2022. évi felmérésének eredményeiről. Kutatási jelentés, ANPI, 14p<br>Szentgyörgyi P., Bátori G. (2022): Adatok a Szuha-vízgyűjtő és környéke flórájához. Kitaibelia 27(1):27–67.<br>Sulyok J., Beránek Á. (2019): Adatok a Tarnavidék, az Upponyi-hegység és környéke flórájához. Kitaibelia 24 (2): 173-226. https://real.mtak.hu/102741/1/04-Sulyok&Beranek_Tarnavidek.pdf<br>Monitoring reports (2019-2024) of Hungarian Biodiversity Monitoring System<br>Vadonleső Program (validált adatai): www.vadonlesoprogram.hu |

## 5. RANGE

*Range within the biogeographical/marine region concerned.*

| | | |
|---|---|---|
| 5.1 Surface area (km$^2$) | 14853 | |
| 5.2 Change and reason for change in surface area of range and main reason | Is there a change between reporting periods?<br>yes, due to improved knowledge/more accurate data | |
| | The change is mainly due to:<br>improved knowledge or more accurate data | |
| 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 | Complete survey or a statistically robust estimate | |

| | | |
|---|---|---|
| 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 | High |
| 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 | number of individuals |
| | b) Minimum | 805630 |
| | c) Maximum | 1480240 |
| | 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 | Complete survey or a statistically robust estimate | |

| | | |
|---|---|---|
| 6.8 Change and reason for change in population size and main reason | Is there a change between reporting periods?<br>yes, due to improved knowledge/more accurate data | |
| | The change is mainly due to:<br>improved knowledge or more accurate data | |
| 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 | Complete survey or a statistically robust estimate | |
| 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:*<br>between 5% and 25% smaller than the FRP | |
| | *c) Indicate if favourable reference population is unknown:*<br>– | |
| | *d) Indicate method used to set reference value (multiple methods can be chosen)* | *Indicate the quality of information available:* |
| | Reference-based approach | High |

| | |
|---|---|
| 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)?<br>Yes<br>b) Is quality of occupied habitat sufficient (for long-term survival)?<br>Yes<br>c) If NO to a) is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)?<br>– | |
| 7.2 Sufficiency of area and quality of occupied habitat Method used | Area of habitat:<br>Complete survey or a statistically robust estimate | Quality of habitat:<br>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 |
|---|---|---|---|---|---|
| **PA01** Agriculture - Conversion into agricultural land | ongoing and likely to be in the future | minority <50% | High influence | | |
| **PA02** Agriculture - Conversion from one type of agricultural land use to another | ongoing and likely to be in the future | whole >90% | High influence | | |

| | | | | | |
|---|---|---|---|---|---|
| **PA05** Agriculture - Abandonment of management/use of grasslands and other agricultural and agroforestry systems | ongoing and likely to be in the future | majority 50 – 90% | Medium influence | | |
| **PA09** Agriculture - Burning for agriculture | ongoing and likely to be in the future | whole >90% | High influence | | |
| **PB01** Forestry - Conversion to forest from other land uses, or afforestiation | ongoing and likely to be in the future | minority <50% | High influence | | |
| **PB26** Forestry - Other forestry activities, excluding those relating to agro-forestry | ongoing and likely to be in the future | minority <50% | Medium influence | | |
| **PC01** Extraction - Extraction of minerals | only in future | – | – | | |
| **PE01** Transport - Roads, paths, railroads and related infrastructure | ongoing and likely to be in the future | minority <50% | Medium influence | | |
| **PF01** Infrastructure - Conversion from other land uses to built-up areas | ongoing and likely to be in the future | minority <50% | High influence | | |
| **PF05** Infrastructure - Sports, tourism and leisure activities | ongoing and likely to be in the future | minority <50% | Medium influence | | |
| **PF06** Infrastructure - Deposition and treatment of waste/rubbish from built-up areas | ongoing and likely to be in the future | minority <50% | Medium influence | | |
| **PG09** Species exploitation - Management of fishing stocks and game | ongoing and likely to be in the future | majority 50 – 90% | High influence | | |
| **PG12** Species exploitation - Illegal harvesting, collecting and taking | ongoing and likely to be in the future | minority <50% | Medium influence | | |
| **PI01** Problematic species - Invasive alien species of Union concern | ongoing and likely to be in the future | minority <50% | Medium influence | *Ailanthus altissima* *Asclepias syriaca* | |
| **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 | | *Soligago spp.* *Robinia pseudoacacia* |

| | | | | | |
|---|---|---|---|---|---|
| **PI03** Problematic species - Problematic native species | ongoing and likely to be in the future | majority 50 – 90% | Medium influence | | |
| **PJ03** Climate change - Changes in precipitation regimes | only in future | – | – | | |
| **PJ11** Climate change - Desynchronisation of biological/ecological processes | ongoing and likely to be in the future | minority <50% | Medium influence | | |
| **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% | High 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?<br>Yes<br>Status of measures:<br>Part of measures identified have been taken |
| 9.2 Scope of measures taken | 50–90% |
| 9.3 Main purpose of the measures taken | A. Indicate the main purpose(s) of measures taken:<br>Maintain the current range, population and/or habitat for the species |
| | B. The main (primary) purpose:<br>Maintain current state |
| 9.4 Location of the measures taken | Both inside and outside Natura 2000 |
| 9.5 Response to the measures *(when the measures start to neutralize the pressure(s) and produce positive effects)* | Medium-term response (within the next two reporting periods, 2025–2036) |

| | |
|---|---|
| 9.6 List of main conservation measures | MA01 – Prevent conversion of natural and semi-natural habitats, and habitats of species into agricultural land<br>MA03 – Maintain existing extensive agricultural practices and agricultural landscape features<br>MA04 – Reinstate appropriate agricultural practices to address abandonment, including mowing, grazing, burning or equivalent measures<br>MA05 – Adapt mowing, grazing and other equivalent agricultural activities (e.g. burning)<br>MA06 – Stop mowing, grazing and other equivalent agricultural activities e.g. burning (incl. restore or improve habitats)<br>MB01 – Prevent conversion of (semi-) natural habitats into forests and of (semi-) natural forests into intensive forest plantation<br>MC01 – Adapt/manage extraction of non-energy resources<br>MF02 – Habitat restoration of areas impacted by residential, commercial, industrial and recreational infrastructure, operations and activities<br>MF03 – Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats)<br>MG03 – Reducing the impact of (re-) stocking for fishing and hunting, of artificial feeding and predator control<br>MG04 – Control/eradication of illegal killing, fishing and harvesting of wild plants, fungi and animals<br>MI02 – Management, control or eradication of established invasive alien species of Union concern<br>MI03 – Management, control or eradication of other invasive alien species<br>MI04 – Restoration of habitats affected by invasive alien species (incl. of Union concern and others)<br>MI05 – Management of problematic native species<br>MJ02 – Implement climate change adaptation measures<br>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<br>MM04 – Other measures related to natural processes<br>MS03 – Restoration of habitat of species from the directives<br>MS04 – Manage native species (incl. non-Directive species) |
| 9.7 Additional information (Optional) | – |

## 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 (Optional) | – | |

## 11. CONCLUSIONS

*Assessment of conservation status at end of reporting period*

| | |
|---|---|
| 11.1 Range | Favourable (FV) |
| 11.2 Population | Inadequate (U1) |

| | | |
|---|---|---|
| 11.3 Habitat for the species | Favourable (FV) | |
| 11.4 Future prospects | Inadequate (U1) | |
| 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.* | no, there is no difference |
| | *The change is mainly due to:* | |
| | 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 where the species is present) | a) Unit | number of individuals |
| | b) Minimum | 776824 |
| | c) Maximum | 933849 |
| | 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 | Complete survey or a statistically robust estimate |
| 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) | – |

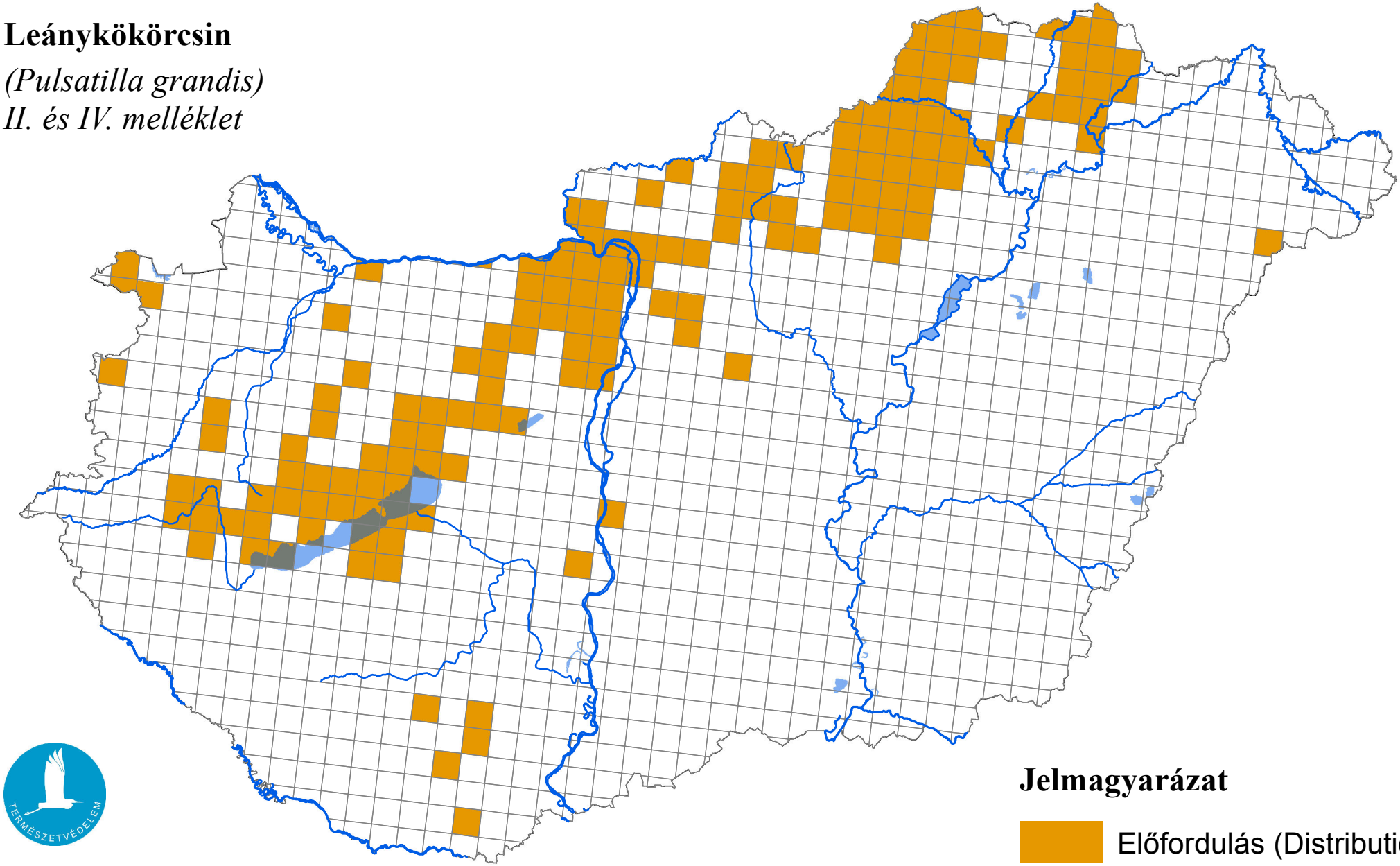
| **13. COMPLEMENTARY INFORMATION** | |
|---|---|
| 13.1 Justification of % thresholds for trends | – |
| 13.2 Trans-boundary assessment | – |
| 13.3 Other relevant information | – |

# Az élőhelyvédelmi irányelv 17. cikke szerinti országjelentés, 2025

## Leánykökörcsin

*(Pulsatilla grandis)*

*II. és IV. melléklet*




Forrás: Agrárminisztérium,
Természetmegőrzési Főosztály