# 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 | 4045 |
| 1.3 Species scientific name | *Coenagrion ornatum* |
| 1.4 Alternative species scientific name (Optional) | |
| 1.5 Common name (Optional) | díszes légivadász |

### 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 | Nemzeti Biodiverzitás-monitorozó Rendszer 2019-2024 közt végzett felméréseinek jelentései BioaquaPro Kft. (2019): Makroszkopikus vízi gerinctelen közösségek és közösségi jelentőségű fajok felmérése. BioAquaPro Kft. (2019): Közösségi jelentőségű fajok elterjedésének és állományviszonyainak élőhelytérképe és térinformatikai adatbázisa (T 1.1.2). WeCon – ATHU077 – Kutatási zárójelentés 165 pp. BioAquaPro Kft. (2020): Az Ikva és a Soproni-hegység kisvízfolyásainak – Kutatási jelentés 68 pp. BioAqua Pro Kft. (2020): Rábaközi kisvízfolyások makrozoobenton faunájának vizsgálat –. Kutatási jelenté. 32 pp. BioAquaPro Kft. (2020): Nyugat-magyarországi közösségi jelentőségű élőhelyek, fajok és inváziós fajok elterjedésének és állományviszonyainak kutatása. BioAqua Pro Kft. (2020): Közösségi jelentőségű fajok elterjedésének és állományviszonyainak élőhelytérképe és térinformatikai adatbázisa. BioaquaPro Kft. (2021): Közösségi jelentőségű makroszkópikus vízi gerinctelen fajok monitorozása. – Kutatási jelentés BioAqua Pro Kft. (2022): A vegetáció és a vízi makroszkopikus gerinctelen közösségek monitorozása az élõhelyfejlesztéssel érintett csatornahálózatban. KEHOP 4.1.0-15-2016-00013. – Kutatási jelentés 70 pp. Innowater Zrt. (2020): Pinkán a Répcén és a Rábán létesített duzzasztók hatásának természetvédelmi szempontú vizsgálata. Kiss B. (2022): Természetvédelmi célkitűzések - Bódva-völgy és Sas-patak-völgye HUAN20003. – Kutatási jelentés Málnás K. (2019): A díszes légivadász (Coenagrion ornatum) elterjedésének vizsgálata a Hernád balparti kisvizeiben. – Kutatási jelentés |

## 5. RANGE

*Range within the biogeographical/marine region concerned.*

| | | |
|---|---|---|
| 5.1 Surface area (km$^2$) | 16919 | |
| 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 | 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:* between 2% and 10% smaller than the FRR | | |
| | 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 | number of map 1x1 km grid cells |
| | b) Minimum | – |
| | c) Maximum | – |
| | d) Best single value | 356 |
| | e) Class | |
| 6.3 Type of estimate | minimum | |
| 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?<br>yes, due to genuine change<br>yes, due to improved knowledge/more accurate data<br>yes, due to the use of different method | |
| | 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 | decreasing | |
| 6.11 Short-term trend Magnitude | a) Estimated Minimum | – |
| | b) Estimated Maximum | – |
| | c) Pre-defined range | – |
| | d) Unknown | Unknown |
| 6.12 Short-term trend Magnitude Type of estimate | Best estimate | |
| 6.13 Short-term trend Method used | Based mainly on expert opinion with very limited 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:*<br>between 26% and 50% 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:* |
| | Expert opinion | |
| 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>Unknown<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>Based mainly on expert opinion with very limited data | Quality of habitat:<br>Insufficient or no data available |
| 7.3 Short-term trend Period | 2013–2024 | |
| 7.4 Short-term trend Direction | uncertain | |
| 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 |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| **PA13** Agriculture - Application of natural or synthetic fertilsers | ongoing and likely to be in the future | minority <50% | Medium influence | | |
| **PA14** Agriculture - Use of plant protection chemicals | ongoing and likely to be in the future | minority <50% | Medium influence | | |
| **PA17** Agriculture - Agricultural activities generating pollution to surface or ground waters | ongoing and likely to be in the future | majority 50 – 90% | Medium influence | | |
| **PJ03** Climate change - Changes in precipitation regimes | ongoing and likely to be in the future | whole >90% | High influence | | |
| **PF07** Infrastructure - Residential and commercial activities and structures generating pollution to surface or ground waters | ongoing and likely to be in the future | minority <50% | Medium influence | | |
| **PA21** Agriculture - Active abstraction of water for agriculture | ongoing and likely to be in the future | majority 50 – 90% | Medium influence | | |
| **PL05** Water regimes - Modification of hydrological flow | ongoing and likely to be in the future | majority 50 – 90% | High influence | | |
| **PA20** Agriculture - Live stock farming generating pollution | ongoing and likely to be in the future | minority <50% | Low influence | | |
| **PA23** Agriculture - Physical alteration of water bodies | ongoing and likely to be in the future | minority <50% | Medium influence | | |
| **PJ10** Climate change - Change of habitat location, size and/or quality | ongoing and likely to be in the future | whole >90% | High influence | | |
| **PK01** Pollution - Mixed source pollution to surface and ground waters (limnic and terrestrial) | 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 | minority <50% | Medium influence | | |

| | | | | | |
|---|---|---|---|---|---|
| **PF14** Infrastructure - Modification of flooding regimes, flood protection for built-up areas | ongoing and likely to be in the future | minority <50% | Medium influence | | |
| **PC08** Extraction - Extraction activities generating pollution to surface or ground waters | only in future | – | – | | |
| **PC12** Extraction - Abstraction of surface and ground water for resource extraction | only in future | – | – | | |

| | |
|---|---|
| 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% |
| 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<br>Restore the habitat of the species (related to 'Habitat for the species')<br>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)* | Short-term response (within the current reporting period, 2019–2024) |

| | |
|---|---|
| 9.6 List of main conservation measures | MA09 – Manage the use of natural and synthetic fertilisers as well as chemicals in agricultural for plant and animal production<br>MF05 – Reduce/eliminate air pollution from industrial, commercial, residential and recreational areas and activities<br>MA10 – Reduce/eliminate point or diffuse source pollution to surface or ground waters (including marine) from agricultural activities<br>MJ01 – Implement climate change mitigation measures<br>MK03 – Restoration of habitats impacted by multi-purpose hydrological changes<br>MA13 – Manage agricultural drainage and water abstraction (incl. the restoration of drained or hydrologically altered habitats)<br>MF08 – Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats).<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>MK01 – Reduce impact of mixed source pollution |
| 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 | Inadequate (U1) | |
| 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 | unknown | |
| 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 genuine change |
| | *The change is mainly due to:* | genuine change |

| | | |
|---|---|---|
| | 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 map 1x1 km grid cells |
| | b) Minimum | – |
| | c) Maximum | – |
| | d) Best single value | 184 |
| 12.2 Type of estimate | minimum | |
| 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 expert opinion with very limited data | |

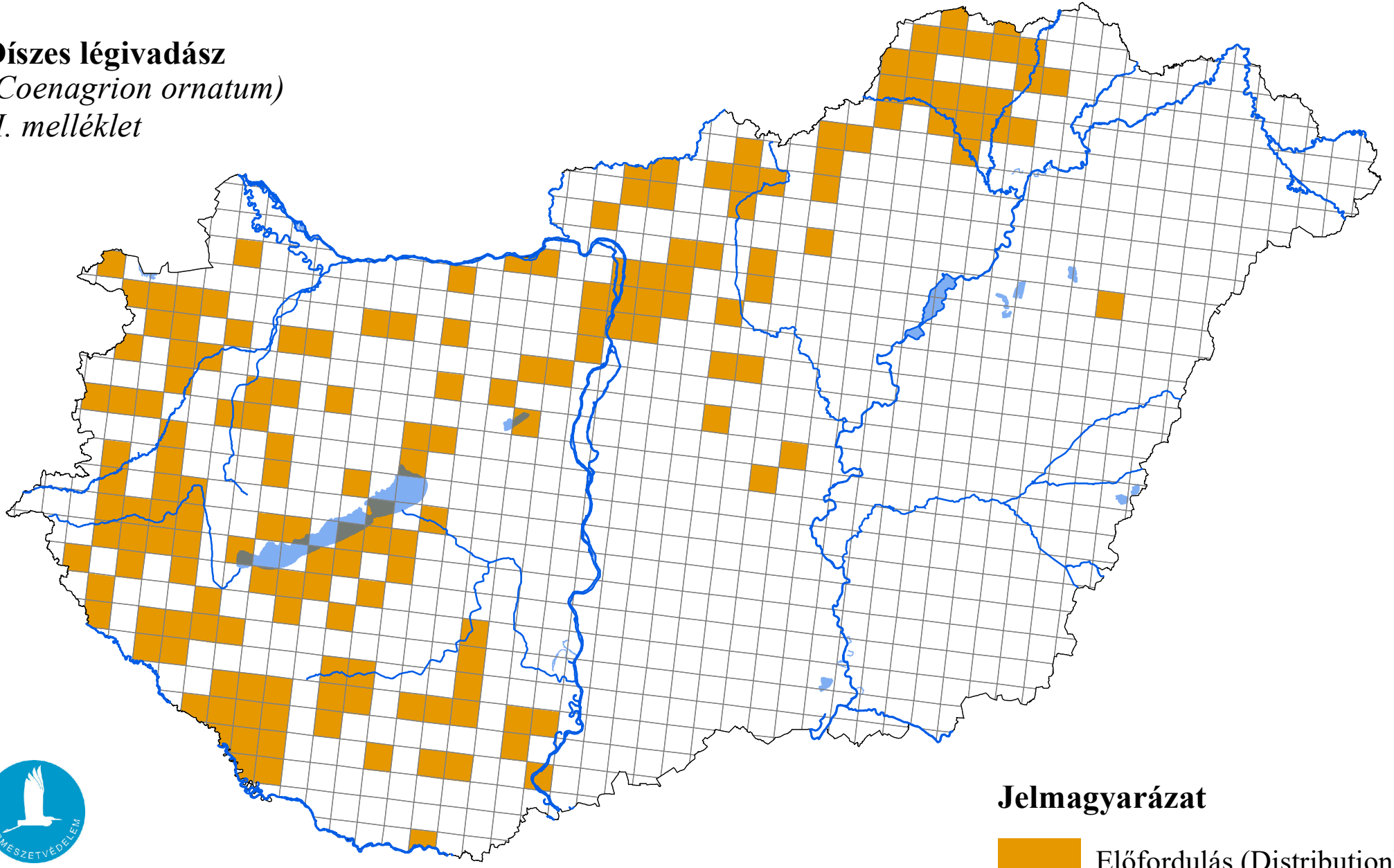
| | |
|---|---|
| 12.8 Short-term trend of habitat for the species within the network Direction | uncertain |
| 12.9 Short-term trend of habitat for the species within the network Method used | Based mainly on expert opinion with very limited data |
| 12.10 Additional information (Optional) | – |

## 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 alapján készített országjelentés, 2025

**Díszes légivadász**
*(Coenagrion ornatum)*
*II. melléklet*




Forrás: Agrárminisztérium,
Természetmegőrzési Főosztály