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From:	Secretary-General of the European Commission, signed by Ms Martine DEPREZ, Director
date of receipt:	19 September 2025
To:	Ms Thérèse BLANCHET, Secretary-General of the Council of the European Union
No. Cion doc.:	C(2025) 6310 final - Annexes 1 to 3
Subject:	ANNEXES to the Commission Delegated Regulation supplementing Regulation (EU) 2024/1991 of the European Parliament and of the Council by establishing a science-based method for monitoring pollinator diversity and pollinator populations

Delegations will find attached document C(2025) 6310 final - Annexes 1 to 3.

Encl.: C(2025) 6310 final - Annexes 1 to 3



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C(2025) 6310 final

ANNEXES 1 to 3

ANNEXES

to the

Commission Delegated Regulation

supplementing Regulation (EU) 2024/1991 of the European Parliament and of the Council by establishing a science-based method for monitoring pollinator diversity and pollinator populations

ANNEX I

MINIMUM NUMBER OF MONITORING SITES

Member State	Minimum number of monitoring sites
Belgium	60
Bulgaria	80
Czechia	70
Denmark	50
Germany	90
Estonia	50
Ireland	40
Greece	80
Spain	100
France	120
Croatia	70
Italy	100
Cyprus	40
Latvia	50
Lithuania	50
Luxembourg	40
Hungary	70
Malta	30
Netherlands	50
Austria	80
Poland	70
Portugal	70
Romania	80
Slovenia	70

Slovakia	70
Finland	70
Sweden	70

ANNEX II

COMMON POLLINATOR INDICATOR

1. General rules
 - (1) The common pollinator indicator to be calculated for each Member State shall be based on the data collected pursuant to Articles 5 and 6. It shall only take into consideration recordings of specimens identified to the species level pursuant to Article 8. It shall not take into consideration alien species.
 - (2) The common pollinator indicator shall combine the measurements of the trends in abundance and diversity of common target species. Those trends shall be calculated for each assessment period and for each taxonomic group referred to in Article 2 based on the annual species abundance indices and the annual species diversity indices established in accordance with sections 2 and 3.
2. Annual species abundance indices
 - (1) A species-specific abundance index shall be calculated annually for each species observed in a Member State based on the methodology for a generalised abundance index described by Dennis et al. (2016)¹.
 - (2) The species-specific abundance index referred to in paragraph (1) shall take into account only species that have been observed in a Member State at least 25 times per year on average over the assessment period.
 - (3) The methodology for a generalised abundance index may be enhanced by taking into account the conditions recorded pursuant to Article 5(6), points (a) to (f) for the species referred to in Article 5(1), and pursuant to Article 6(5), points (a) to (f) for night-active moths.
 - (4) A multi-species abundance index shall be calculated annually for each taxonomic group using the annual species-specific indices referred to in paragraph (1), based on the methodology described by Freeman et al. (2021)².
3. Annual species diversity indices
 - (1) A site-specific species diversity index shall be calculated annually for each monitoring site and each taxonomic group using the Shannon-Wiener Diversity Index³ methodology.
 - (2) A species diversity index shall be calculated annually for each taxonomic group using all annual site-specific species diversity indices referred to in paragraph (1), using the methodology described by Freeman et al. (2021).
4. Trends in species abundance and in species diversity
 - (1) The methodology described by Freeman et al. (2021) shall provide the trends in the species abundance based on the multi-species abundance indices referred to in section 2, paragraph (4), and shall provide the trends in the species diversity based on

¹ Dennis, E.B., Morgan, B.J.T., Freeman, S.N., Brereton, T.M. and Roy, D.B. (2016), A Generalized Abundance Index for Seasonal Invertebrates. *Biometrics* 72: 1305-1314. <https://doi.org/10.1111/biom.12506>

² Freeman, S.N., Isaac, N.J.B., Besbeas, P., Dennis, E.B. and Morgan, B.J.T. (2021), A Generic Method for Estimating and Smoothing Multispecies Biodiversity Indicators Using Intermittent Data. *JABES* 26: 71–89. <https://doi.org/10.1007/s13253-020-00410-6>

³ Allaby, M. (2020) A Dictionary of Zoology (5 ed.). Oxford University Press, Oxford. doi: [10.1093/acref/9780198845089.001.0001](https://doi.org/10.1093/acref/9780198845089.001.0001).

the species diversity indices referred to in section 3, paragraph (2) over each assessment period.

- (2) For the first assessment period, the method referred to in paragraph (1) shall be constrained to fit a straight line across the annual values of the multi-species abundance indices and the species diversity indices.
- (3) For the assessment periods after 2030, smoothed trends shall be calculated, with the smoothness of the trends being determined using the approach described by Massimino et al. (2025)⁴.

5. Calculation of the common pollinator indicator

- (1) For each assessment period, the probability of a positive trend shall be determined separately for the trends in species abundance and the trends in species diversity for each taxonomic group. Those probabilities shall be converted into an odds ratio.
- (2) The product of all odds ratios referred to in paragraph (1) shall be calculated.
- (3) The product of all odds ratios referred to in paragraph (2) shall be converted back to a combined probability that both species abundance and species diversity are increasing across all taxonomic groups. That combined probability shall constitute the common pollinator indicator, which shall be provided with a 90 % confidence interval.

⁴ Massimino, D., Baillie, S.R., Balmer, D.E., Bashford, R.I., Gregory, R.D., Harris, S.J., Heywood, J.J.N., Kelly, L.A., Noble, D.G., Pearce-Higgins, J.W., Raven, M.J., Risely, K., Woodcock, P., Wotton, S.R. and Gillings, S. (2025), The Breeding Bird Survey of the United Kingdom. *Global Ecology and Biogeography* 34: e13943. <https://doi.org/10.1111/geb.13943>

ANNEX III

POLLINATOR SPECIES RICHNESS INDICATOR

- (1) A pollinator species richness index shall be calculated annually for each Member State based on the data collected pursuant to Articles 5, 6 and 7. It shall only take into consideration recordings of specimens identified to the species level pursuant to Article 8. It shall not take into consideration alien species.
- (2) For each assessment period, the assessment shall be based on a linear regression analysis of the annual species richness indices referred to in paragraph (1).
- (3) The pollinator species richness indicator shall be calculated as the slope of the regression line.