Selection of data drom DEMNA

119289 records (102 ‘species’)

* Remove all groups not identified until species level.

Aeshna sp.

Aeshnidae

Agrion sp.

Anax sp.

Anisoptera sp.

Calopterygidae

Calopteryx sp.

Chalcolestes sp.

Coenagrion sp.

Coenagrionidae

Cordulegaster sp.

Cordulegasteridae

Cordulia sp.

Corduliidae

Enallagma sp.

Erythromma sp.

Gomphidae

Gomphus sp

Gomphus sp.

Ischnura sp.

Lestes sp.

Lestidae

Leucorrhinia sp.

Libellula sp.

Libellulidae

Odonata

Onychogomphus sp.

Orthetrum sp.

Platycnemididae

Platycnemis sp.

Pyrrhosoma sp.

Somatochlora sp.

Sympecma sp.

Sympetrum sp.

Zygoptère

Result: 113910 records (67 species)

Flight period was determined based on the waarnemingen.be observations. The 5% earliest and latest observations were discarded. We only considered species which had more than 30 recordings in order to be able to calculate this flight period. Only species with more than 30 observations in waarnemingen.be were considered in the analysis.

**Species taxonomy**

When linking the DEMNA and Observation database. 3 species were present in DEMNA, but not (anymore) in the waarnemingen.be database.

Gomphus simillimus (6 Observations) was discarded.

Hemianax ephippiger (3 observations) is a synonym of Anax ephippiger. H. ephippiger is the species from the CoL.

Lestes viridis (2382) is the synonym of Chalcolestes viridis. L. viridis is the species from the GBIF backbone.

The names from waarnemingen.be were checked with the Catalogue of Life. The COL id was added.

64 species were linked without a problem. 3 species from waarnemingen.be were not present in the DEMNA dataset. One of them, received a COL id.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Natuurpunt name | w.be id | Present DEMNA? | Synonym | Cat Of Life id |
| Chalcolestes viridis | 585 | NO | Lestes viridis | No COL id:  GBIF ID: 100215311 |
| Gomphus flavipes | 602 | NO | / | COL ID:  dbdc89b0ce00200b28e6e467305af376 |
| Anax ephippiger | 618 | NO | Hemianax ephippiger | COL ID:  a54f00279cb1d9083f9ffd2e3bf3bab1 |
| Aeshna isosceles | 615 | YES | / | No COL id:  GBIF ID: 101490192 |

**Date selection**

11 observations did not contain a date and were removed from the DEMNA database. Only data from 1990-2018 🡪 resulting in 108.816 records

245 records only had a year, but no month and day indication. They were removed.

182 records had no day indication. They were removed.

**All records were joined (w.be and DEMNA and libellen databank (G. De Knijf))**

Consequently, for each species, records outside the flight period were removed.

Demna records without a number of individuals (59) were removed.