

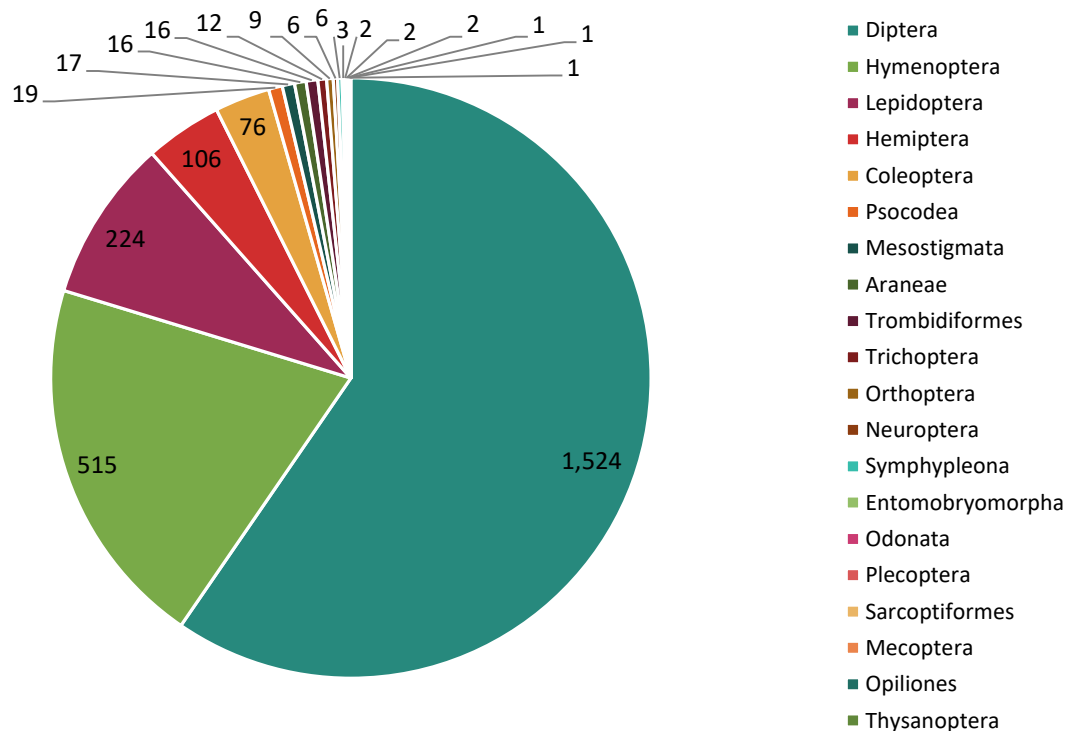
# TERRESTRIAL ARTHROPOD MONITORING PROGRAM

## METABARCODING REPORT – AIGUEBELLE

Collections Unit, Centre for Biodiversity Genomics (CBG), University of Guelph

### Results

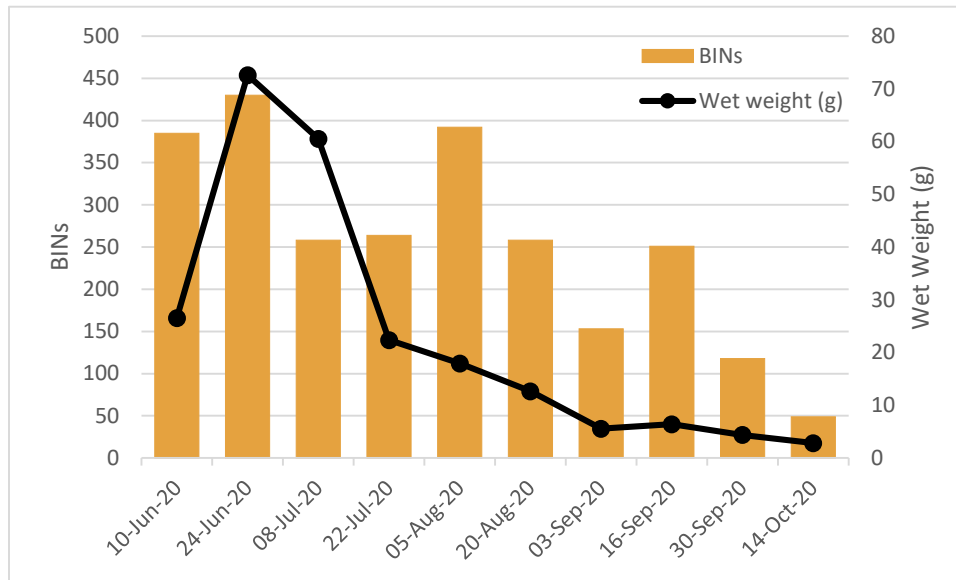
A total of 2,558 different BINs (Barcode Index Numbers; a proxy for species) were encountered at Aiguebelle National Park. Over half the BINs captured were flies (Diptera), followed by bees, ants and wasps (Hymenoptera), moths and butterflies (Lepidoptera), and true bugs (Hemiptera; Figure 1).



**Figure 1.** Taxonomic breakdown of BINs captured in the Malaise trap at Aiguebelle National Park.

Species diversity and insect abundance varied throughout the collecting period; the period that captured the most BINs was also the largest sample collected (Figure 2). The peak of species diversity was obtained towards the end of June.

In total, 1,124 species were named, representing 44% of the BINs. All BINs were assigned at least to family and 69% of the BINs were assigned to a genus. Specimens collected from this site represent 213 different families and 828 genera. A complete species list is attached separately.



**Figure 2.** Species diversity (measured by BINs) and approximate insect abundance (measured by wet weight of sample) captured at the trap over the 2020 collecting period.

## Contact Information

Jeremy deWaard, PhD  
 Director - Collections  
[dewaardj@uoguelph.ca](mailto:dewaardj@uoguelph.ca)

Kristen McCabe, BSc  
 Research Technician – Collections  
[kmccabe@uoguelph.ca](mailto:kmccabe@uoguelph.ca)



University of Guelph  
 50 Stone Road East, Guelph, ON,  
 Canada N1G 2W1  
[www.biodiversitygenomics.net](http://www.biodiversitygenomics.net)