

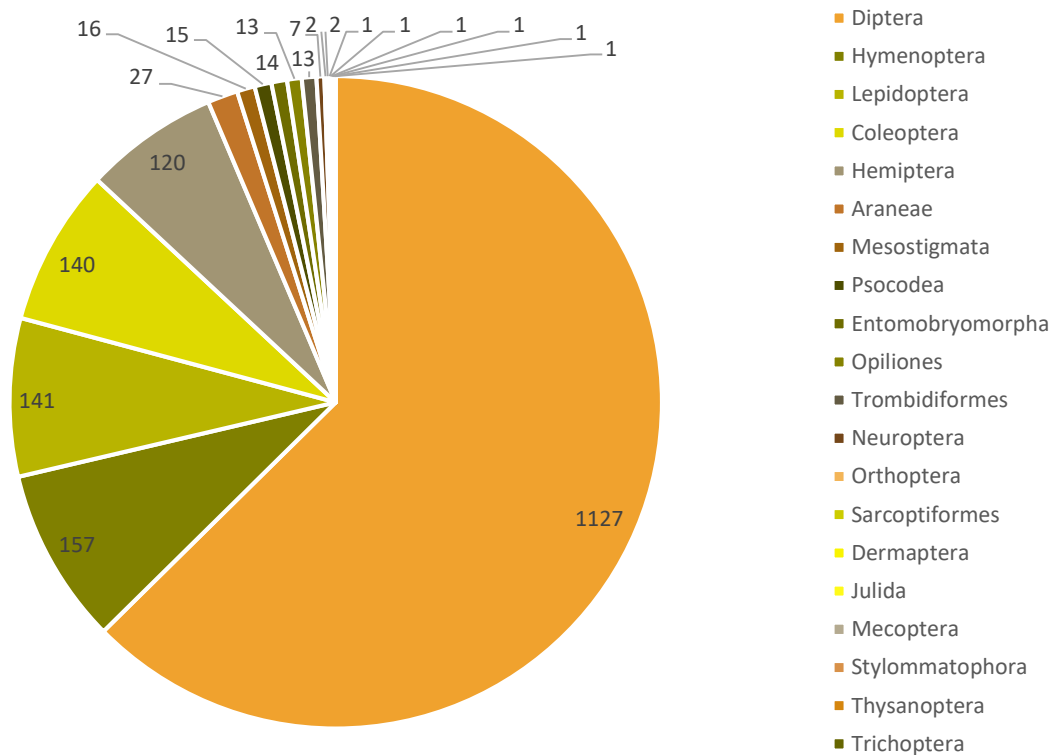
# TERRESTRIAL ARTHROPOD MONITORING PROGRAM

## METABARCODING REPORT – TRILLIUM WOODS

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

### Results

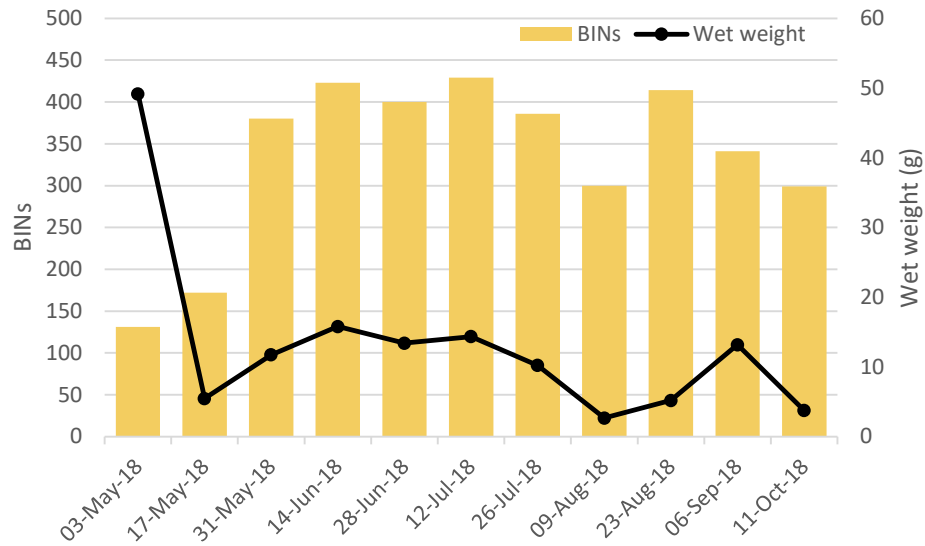
A total of 1,800 different BINs (Barcode Index Numbers; a proxy for species) were encountered at Trillium Woods Provincial Park. Over half the BINs captured were flies (Diptera), followed by bees, ants and wasps (Hymenoptera), moths and butterflies (Lepidoptera), and beetles (Coleoptera; Figure 1).



**Figure 1.** Taxonomic breakdown of BINs captured in the Malaise trap at Trillium Woods Provincial Park.

Species diversity and insect abundance varied throughout the collecting period; the period that captured the most BINs was not necessarily the largest sample collected (Figure 2). The peak of species diversity was obtained in early July.

In total, 519 species were named, representing 31% of the BINs. All but three of the BINs were assigned at least to family and 63% were assigned to a genus. Specimens collected from this site represent 201 different families and 629 genera. A complete species list is attached separately.



**Figure 2.** Species diversity (measured by BINs) and approximate insect abundance (measured by wet weight of the sample) captured at the trap over the 2018 collecting period.

## Contact Information

Jeremy deWaard, PhD

Director - Collections

[dewaardj@uoguelph.ca](mailto:dewaardj@uoguelph.ca)

Kate Perez, MSc

Field Operations Lead – Collections

[kperez@uoguelph.ca](mailto:kperez@uoguelph.ca)



University of Guelph

50 Stone Road East, Guelph, ON,

Canada N1G 2W1

[www.biodiversitygenomics.net](http://www.biodiversitygenomics.net)

Funding provided by:



**FOOD FROM THOUGHT**