

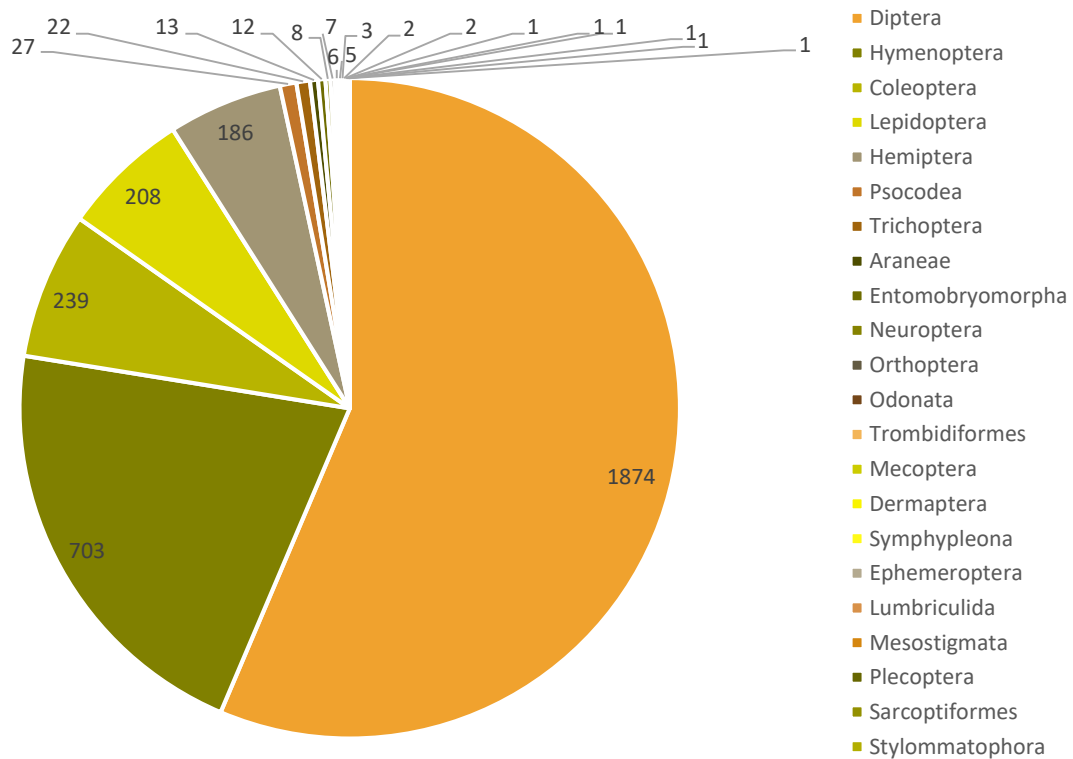
# TERRESTRIAL ARTHROPOD MONITORING PROGRAM

## METABARCODING REPORT – VOYAGEUR

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

### Results

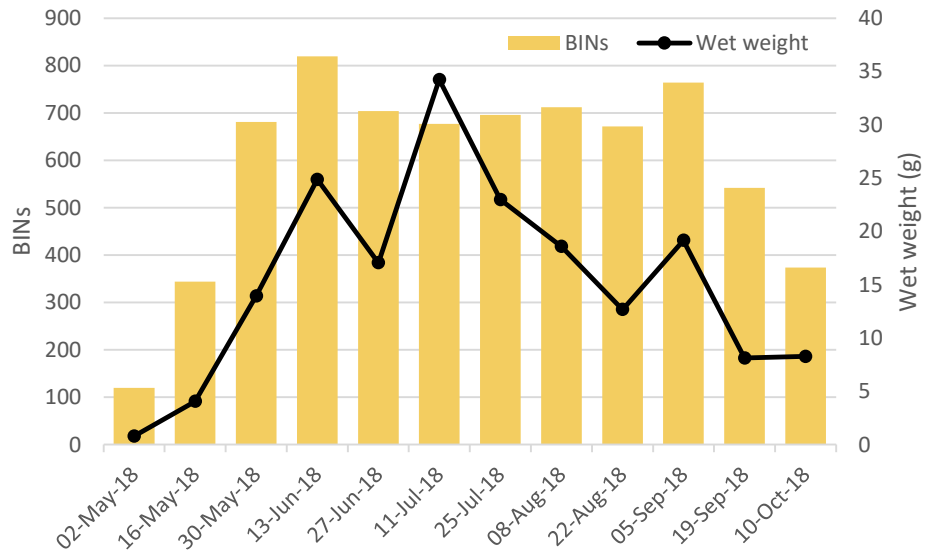
A total of 3,323 different BINs (Barcode Index Numbers; a proxy for species) were encountered at Voyageur Provincial Park. Over half the BINs captured were flies (Diptera), followed by bees, ants and wasps (Hymenoptera), beetles (Coleoptera), and moths and butterflies (Lepidoptera; Figure 1).



**Figure 1.** Taxonomic breakdown of BINs captured in the Malaise trap at Voyageur 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 June.

In total, 914 species were named, representing 30% of the BINs. All but three of the BINs were assigned at least to family and 69% were assigned to a genus. Specimens collected from this site represent 242 different families and 1040 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.

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