

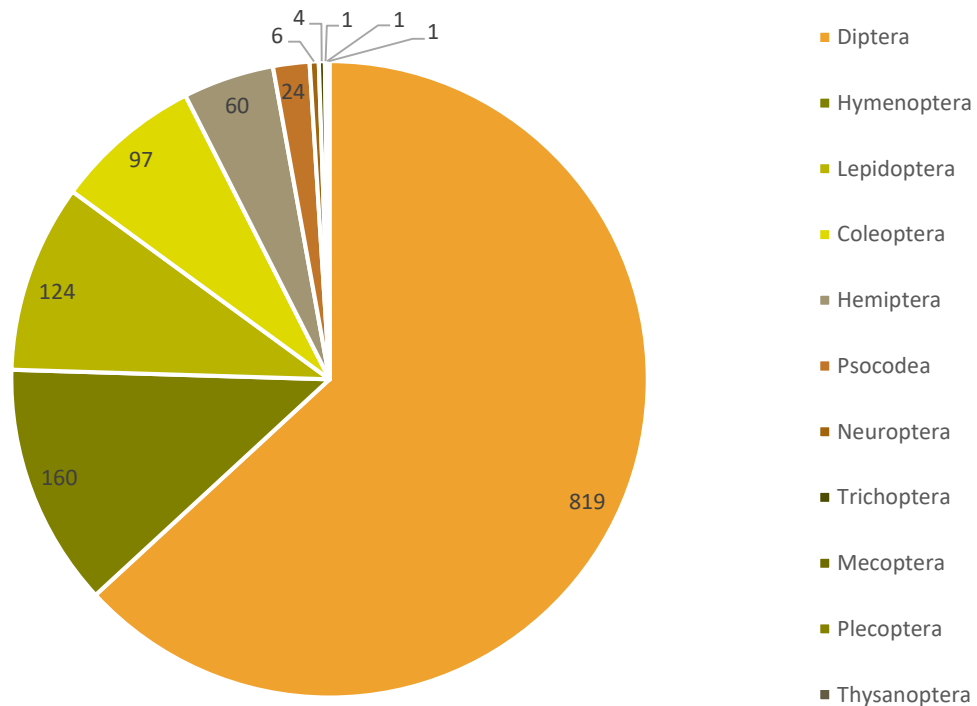
# TERRESTRIAL ARTHROPOD MONITORING PROGRAM

## METABARCODING REPORT – INVERHURON

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

### Results

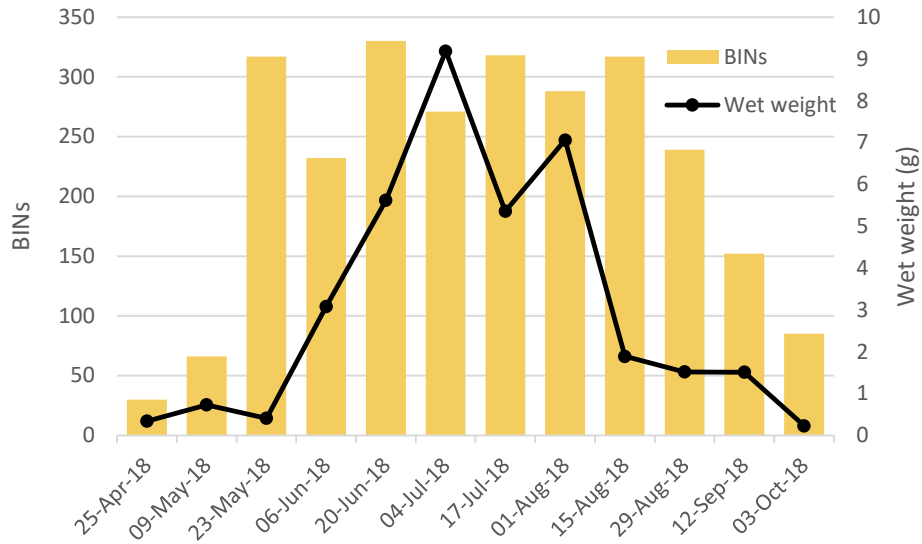
A total of 1,297 different BINs (Barcode Index Numbers; a proxy for species) were encountered at Inverhuron Provincial Park. Over half the BINs captured were flies (Diptera), followed by bees, ants and wasps (Hymenoptera), moths and butterflies (Lepidoptera), and beetles (Coleoptera; Figure 1).



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

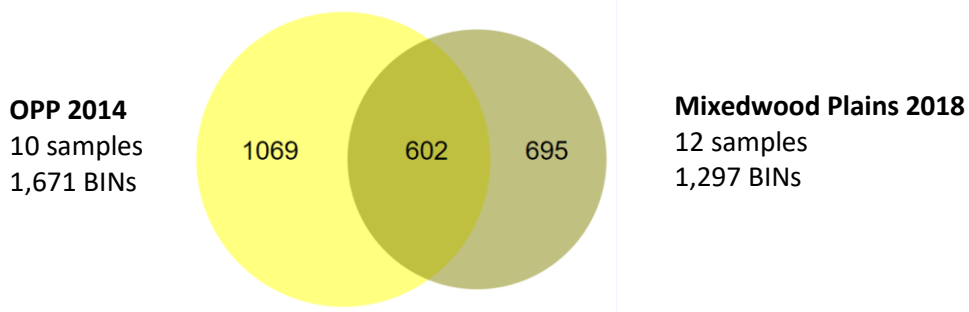
Species diversity and insect abundance varied throughout the collecting period; the period that captured the most BINs was not necessarily the largest sample collected (Figure 2). The peak of species diversity was obtained in mid-June.

In total, 337 species were named, representing 28% of the BINs. All but two of the BINs were assigned at least to family and 60% were assigned to a genus. Specimens collected from this site represent 160 different families and 441 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.

In combination with the OPP Malaise Program run in 2014, a grand total of 2,366 BINs have been captured from Inverhuron. There was an overlap of 602 BINs between both sampling years and the 2018 Mixedwood Plains trap added 695 BINs to the total species pool (Figure 3).



**Figure 3.** Venn diagram showing the species overlap between the 2014 and 2018 Malaise trapping projects.

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