

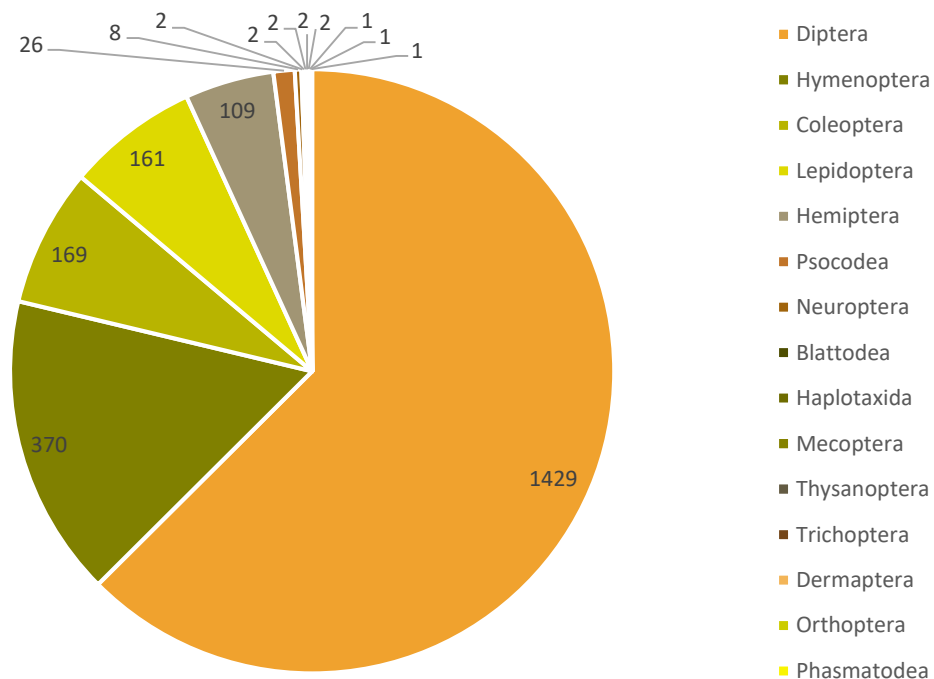
# TERRESTRIAL ARTHROPOD MONITORING PROGRAM

## METABARCODING REPORT – HOLLAND LANDING PRAIRIE

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### Results

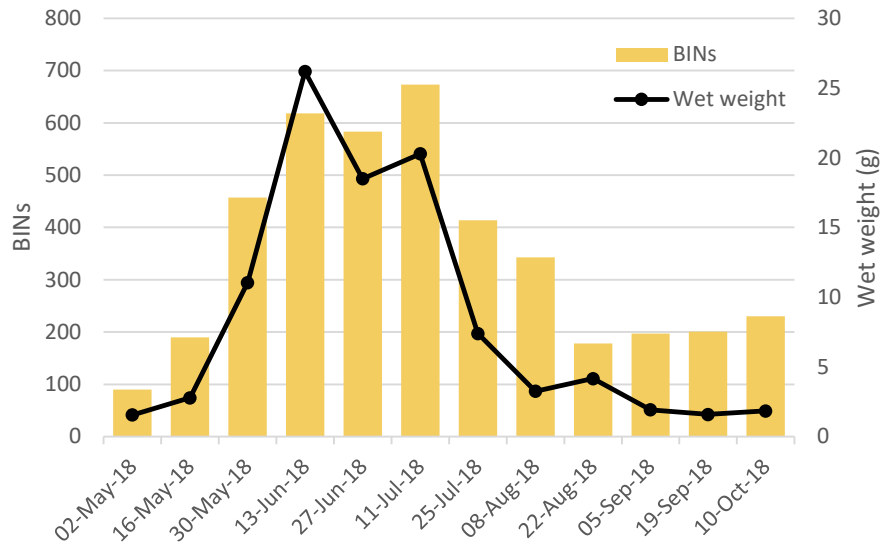
A total of 2,285 different BINs (Barcode Index Numbers; a proxy for species) were encountered at Holland Landing Prairie Provincial Nature Reserve (PNR). Over half the BINs captured were flies (Diptera), followed by bees, ants and wasps (Hymenoptera), beetles (Coleoptera), and moths and butterflies (Lepidoptera; Figure 1).



**Figure 1.** Taxonomic breakdown of BINs captured in the Malaise trap at Holland Landing Prairie PNR.

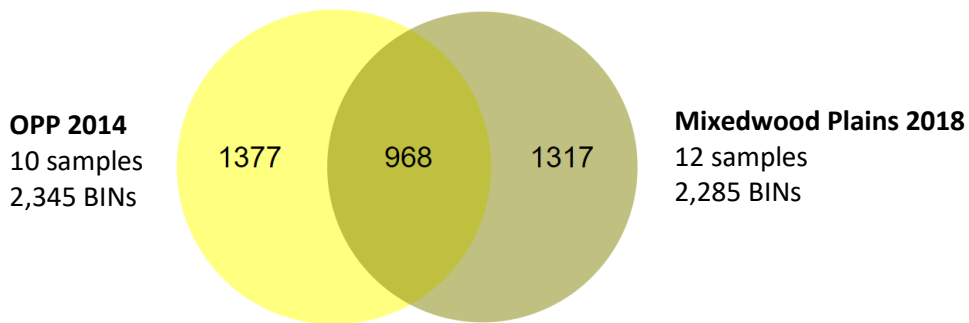
Species diversity and insect abundance varied throughout the collecting period; the period that captured the most BINs was not necessarily the largest sample collected (Figure 2). The peak of species diversity was obtained in early July.

In total, 563 species were named, representing 27% of the BINs. All but four of the BINs were assigned at least to family and 61% were assigned to a genus. Specimens collected from this site represent 192 different families and 694 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 3,662 BINS have been captured from Holland Landing Prairie. There was an overlap of 968 BINS between both sampling years and the 2018 Mixedwood Plains trap added 1,317 BINS to the total species pool (Figure 3).



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

## Contact Information

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Funding provided by:



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