

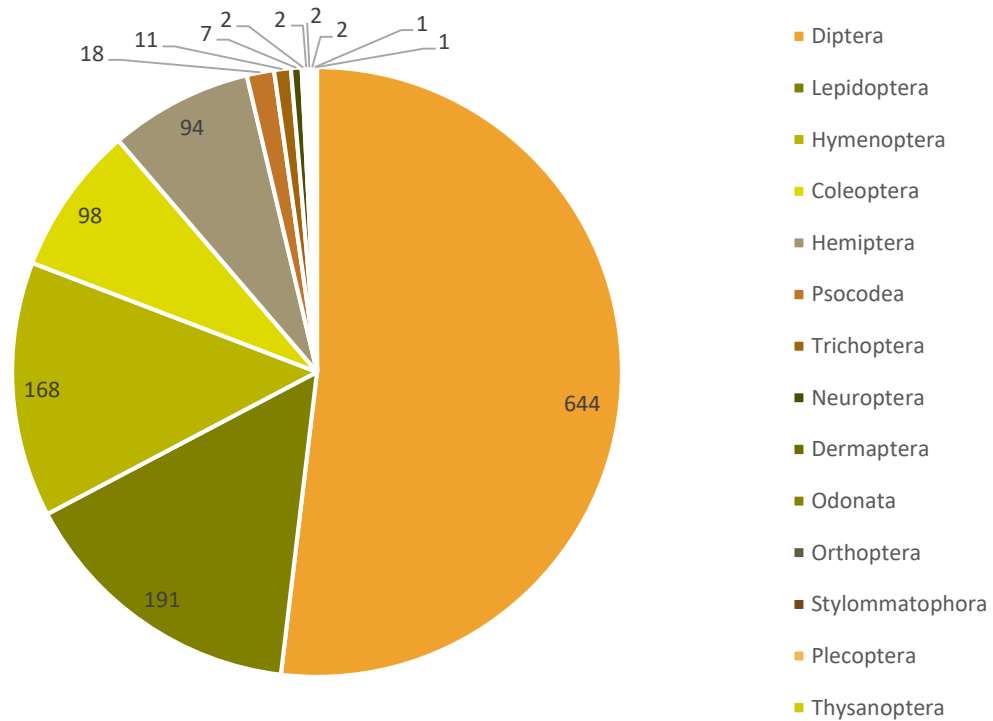
# TERRESTRIAL ARTHROPOD MONITORING PROGRAM

## METABARCODING REPORT – SELKIRK

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

### Results

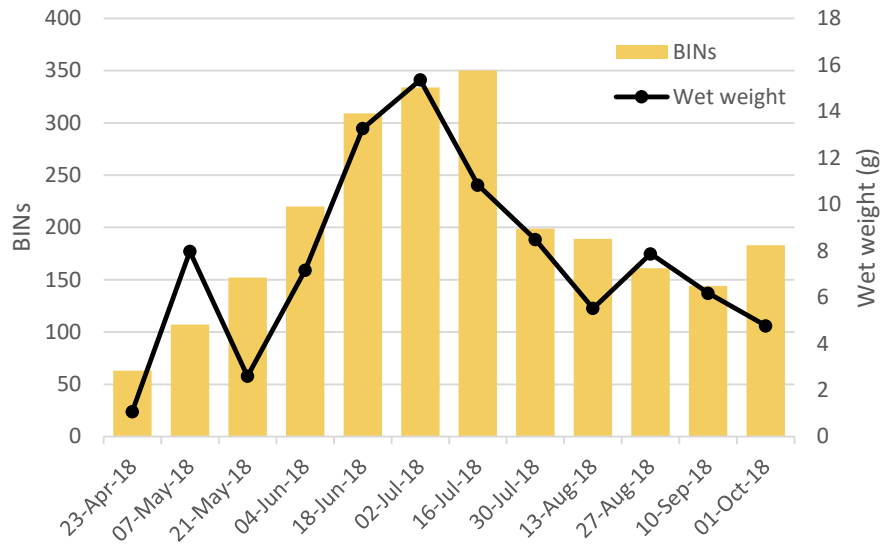
A total of 1,241 different BINs (Barcode Index Numbers; a proxy for species) were encountered Selkirk Provincial Park. Over half the BINs captured were flies (Diptera), followed by moths and butterflies (Lepidoptera), bees, ants and wasps (Hymenoptera), and beetles (Coleoptera; Figure 1).



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

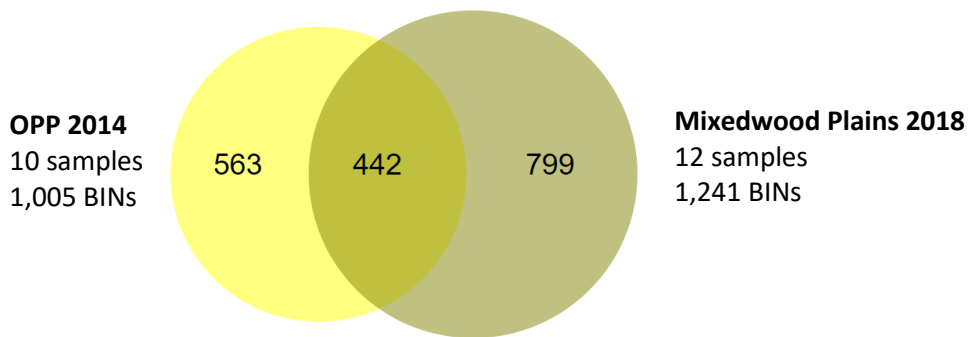
Species diversity and insect abundance varied throughout the collecting period; the period that captured the most BINs was not necessarily the largest sample collected (Figure 2). The peak of species diversity was obtained in early July.

In total, 431 species were named, representing 37% of the BINs. All but one of the BINs were assigned at least to family and 72% were assigned to a genus. Specimens collected from this site represent 165 different families and 514 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 1,804 BINs have been captured from Selkirk. There was an overlap of 442 BINs between both sampling years and the 2018 Mixedwood Plains trap added 799 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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