TERRESTRIAL ARTHROPOD MONITORING PROGRAM METABARCODING REPORT – MARTEN RIVER PROVINCIAL PARK

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Results

A total of 3,549 different BINs (Barcode Index Numbers; a proxy for species) were encountered at Marten River 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).

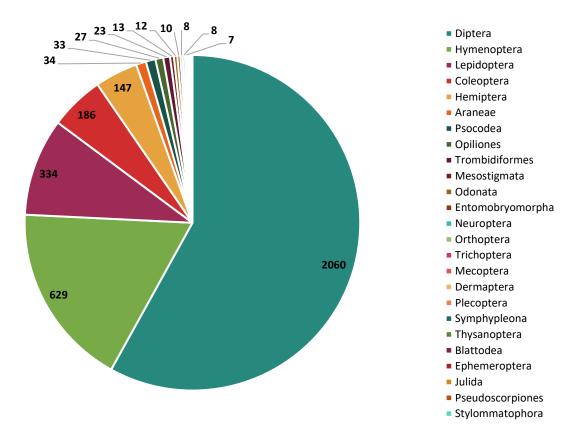


Figure 1. Taxonomic breakdown of BINs captured in the Malaise trap at Aiguebelle National Park.

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 towards the end of June.

In total, 997 species were named, representing 31% of the BINs. All but one of the BINs were assigned at least to family and 74% of the BINs were assigned to a genus. Specimens collected from this site represent 281 different families and 1,083 genera. A complete species list is attached separately.



Figure 2. Species diversity (measured by BINs) and approximate insect abundance (measured by wet weight of sample) captured at the trap over the 2021 collecting period.