

TERRESTRIAL ARTHROPOD MONITORING PROGRAM

METABARCODING REPORT – HAUTES-GORGES

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

Results

A total of 3,330 different BINs (Barcode Index Numbers; a proxy for species) were encountered at Hautes-Gorges-de-la-Rivière-Malbaie National Park. Just over half the BINs captured were flies (Diptera), followed by bees, ants and wasps (Hymenoptera), moths and butterflies (Lepidoptera), and beetles (Coleoptera; Figure 1).

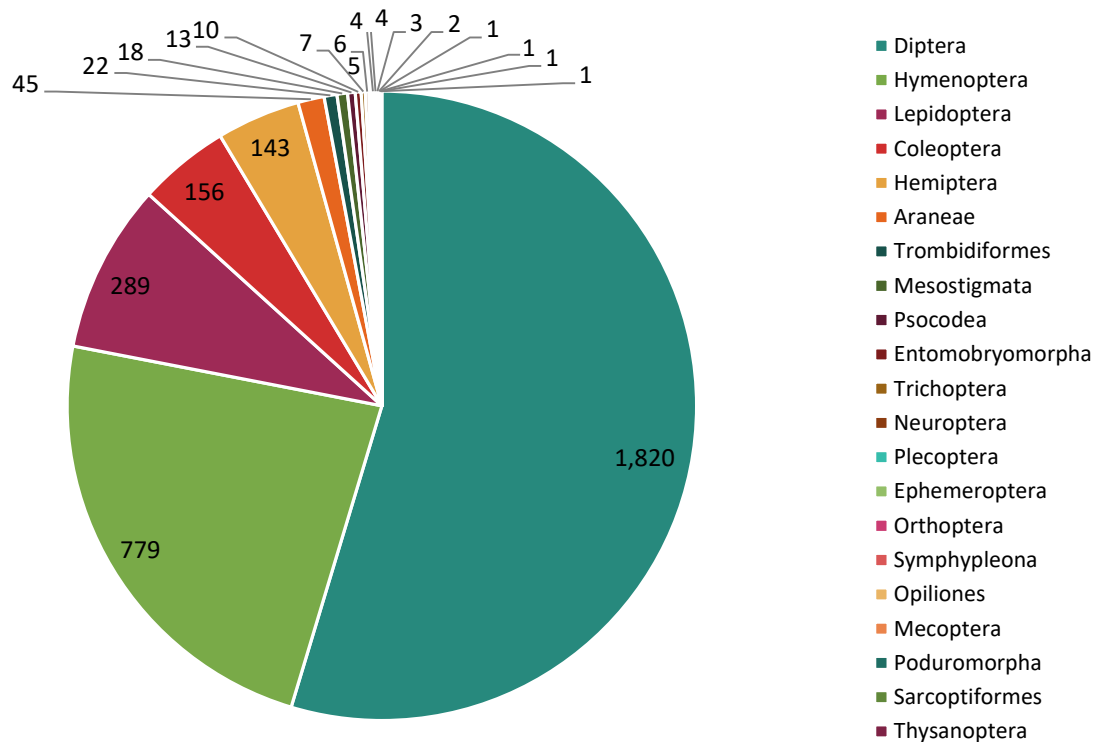


Figure 1. Taxonomic breakdown of BINs captured in the Malaise trap at Hautes-Gorges-de-la-Rivière-Malbaie National Park.

Species diversity and insect abundance varied throughout the collecting period; the period that captured the most BINs was also the largest sample collected (Figure 2). The peak of species diversity was obtained towards the end of June.

In total, 1,668 species were named, representing 50% of the BINs. All BINs were assigned at least to family and 75% of the BINs were assigned to a genus. Specimens collected from this site represent 264 different families and 1,119 genera. A complete species list is attached separately.

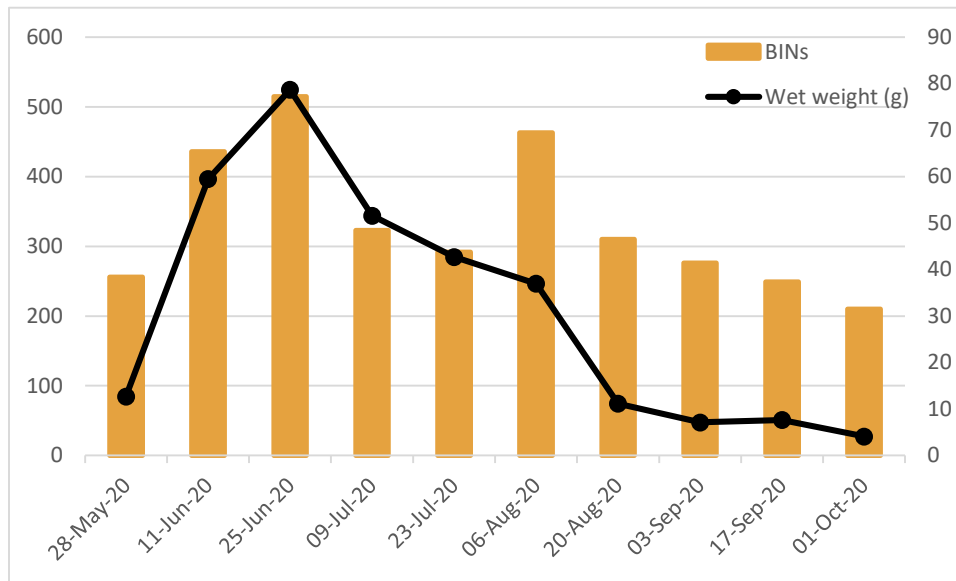


Figure 2. Species diversity (measured by BINs) and approximate insect abundance (measured by wet weight of sample) captured at the trap over the 2020 collecting period.

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