

TERRESTRIAL ARTHROPOD MONITORING PROGRAM

METABARCODING REPORT – MONTS-VALIN

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

Results

A total of 2,776 different BINs (Barcode Index Numbers; a proxy for species) were encountered at Monts-Valin National Park. Over half the BINs captured were flies (Diptera), followed by bees, ants and wasps (Hymenoptera), moths and butterflies (Lepidoptera), and true bugs (Hemiptera; Figure 1).

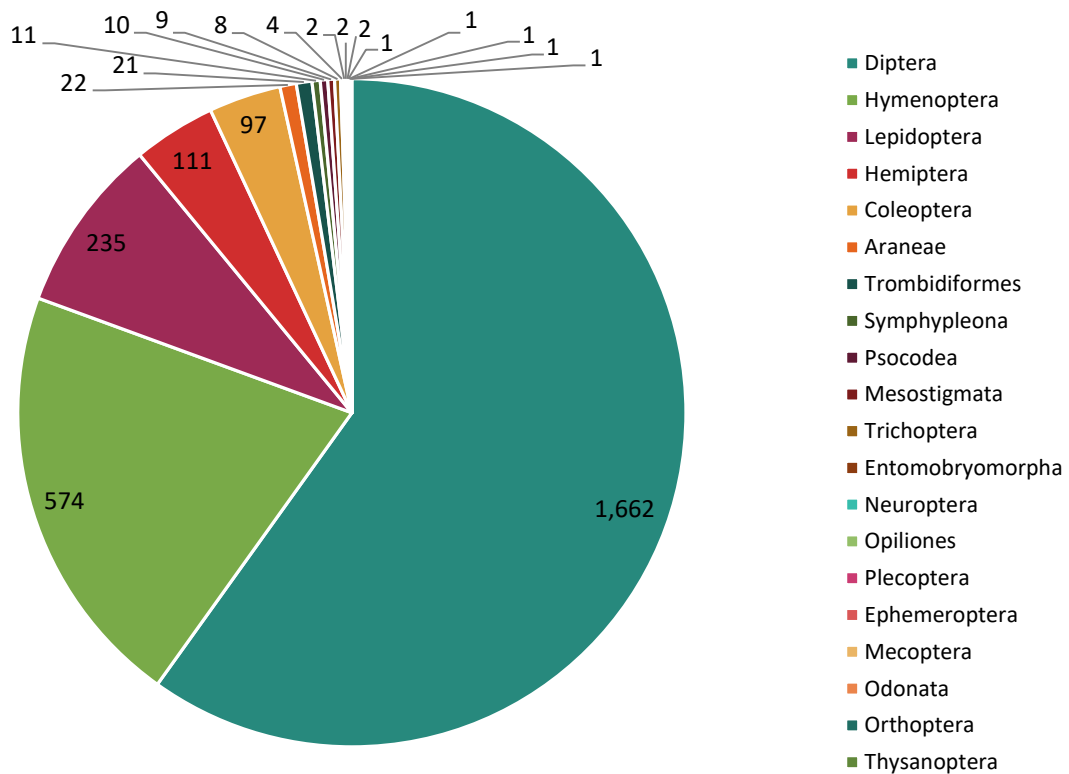


Figure 1. Taxonomic breakdown of BINs captured in the Malaise trap at Monts-Valin National Park.

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 middle of June.

In total, 1,304 species were named, representing 47% of the BINs. All but one of the BINs were assigned at least to family and 72% of the BINS were assigned to a genus. Specimens collected from these sites represent 218 different families and 875 genera. A complete species list is attached separately.

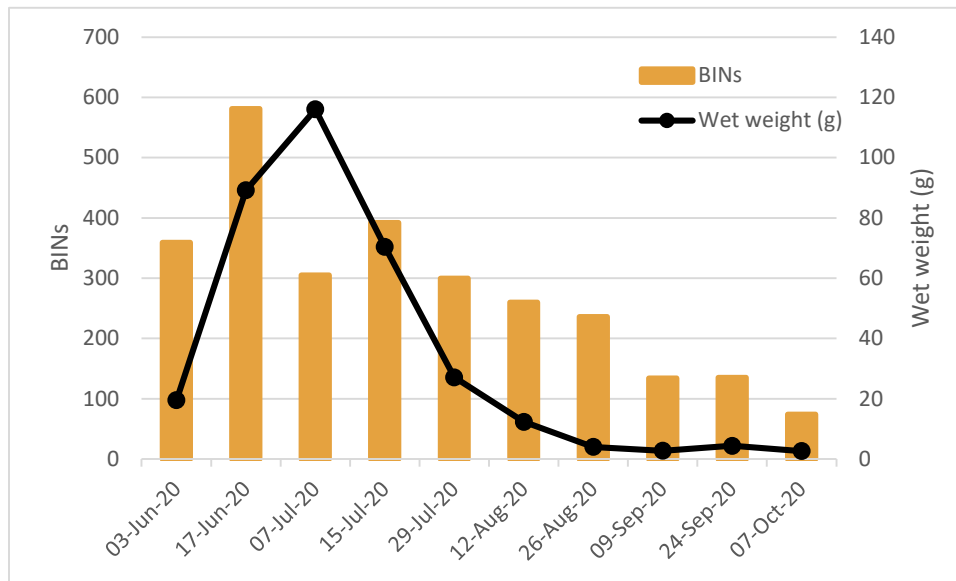


Figure 2. Species diversity (measured by BINs) and approximate insect abundance (measured by wet weight of sample) captured at the trap over the 2020 collecting period.

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