

TERRESTRIAL ARTHROPOD MONITORING PROGRAM

METABARCODING REPORT – JACQUES-CARTIER 2

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

Results

A total of 1,857 different BINs (Barcode Index Numbers; a proxy for species) were encountered at Site 2 in Jacques-Cartier 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).

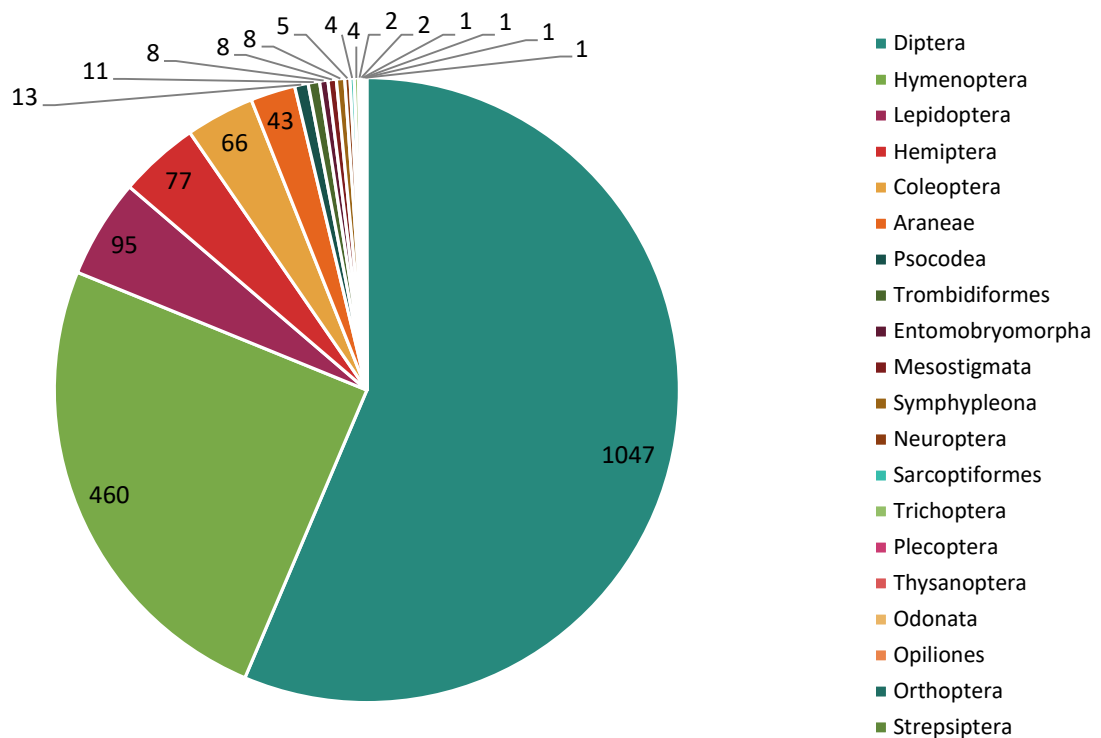


Figure 1. Taxonomic breakdown of BINs captured in the Malaise trap at Site 2 in Jacques-Cartier National Park.

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 beginning of July.

In total, 885 species were named, representing 48% 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 172 different families and 625 genera. A complete species list is attached separately.

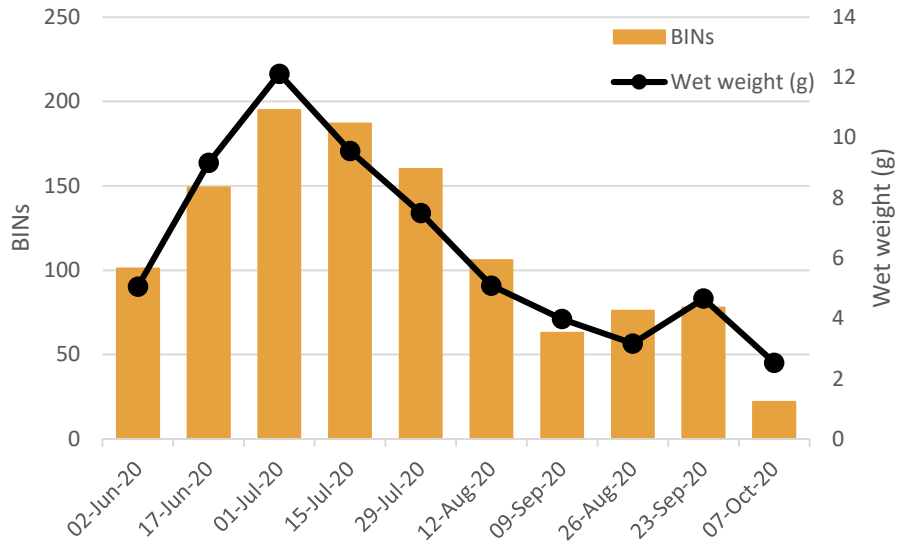


Figure 2. Species diversity (measured by BINs) and approximate insect abundance (measured by wet weight of sample) captured at the traps over the 2020 collecting period.

Contact Information

Jeremy deWaard, PhD
 Director - Collections
dewaardj@uoguelph.ca

Kristen McCabe, BSc
 Research Technician – Collections
kmccabe@uoguelph.ca



University of Guelph
 50 Stone Road East, Guelph, ON,
 Canada N1G 2W1
www.biodiversitygenomics.net