

# TERRESTRIAL ARTHROPOD MONITORING PROGRAM

## METABARCODING REPORT – RATHREVOR BEACH (RB)

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

### Results

A total of 731 different BINs (Barcode Index Numbers; a proxy for species) were encountered at Rathrevor Beach Provincial Park. Both traps captured a similar number of BINs and there was an overlap of 239 BINs between the traps (Figure 1). Species diversity and insect abundance varied throughout the collecting period; the sample that contained the most BINs was the largest collected, and the peaks of species diversity were in late July (RB-1) and mid-June (RB-2; Figure 2). In total, 206 species could be named, representing 31% of the BINs. All but one of the BINs were assigned at least to family and 64% were assigned to a genus. Specimens collected from this park represent 156 different families and 320 genera. A taxonomic reference for all BINs captured and a full species inventory are provided in Supplementary File Tab 5 and 6, respectively.

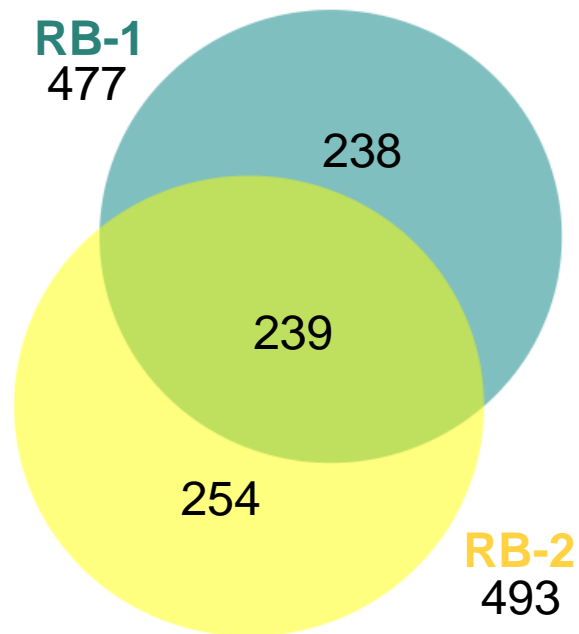


Figure 1. Venn diagram showing the species overlap between the two traps.

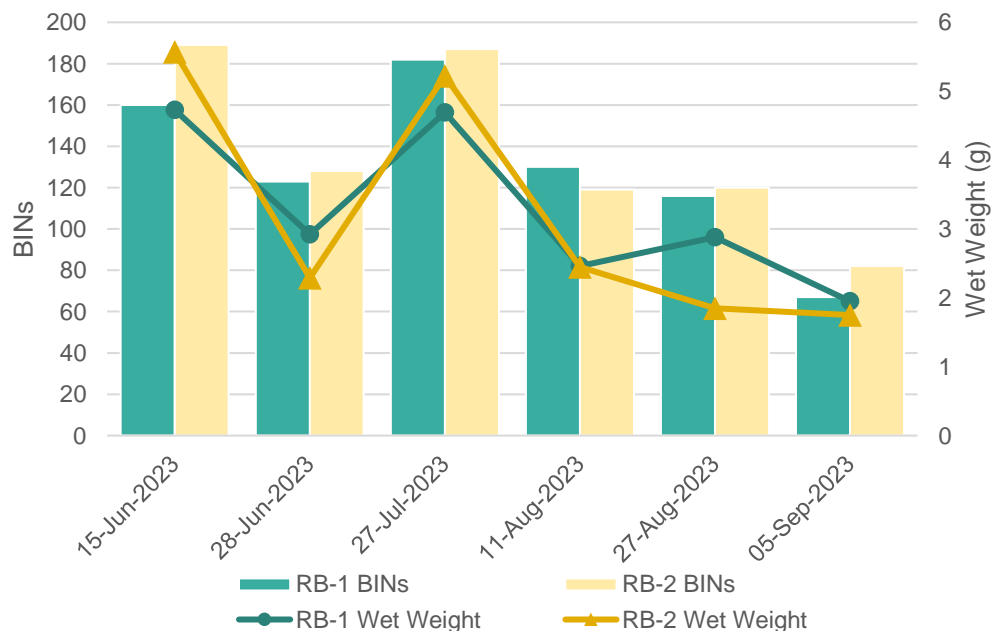


Figure 2. Species diversity (measured by BINs) and insect biomass (measured by wet weight of the sample) captured at the two traps over the 2023 collecting period.