TERRESTRIAL ARTHROPOD MONITORING PROGRAM

METABARCODING REPORT – GOLDEN EARS (GE)

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

Results

A total of 739 different BINs (Barcode Index species) proxy for encountered at Golden Ears Provincial Park. Both traps captured a similar number of BINs and there was an overlap of 261 BINs between the traps (Figure 1). Species diversity and insect abundance varied throughout the collecting period; the sample that captured the most BINs was not the largest collected, and the peaks of species diversity were in late August (GE-1) and mid-June (GE-2; Figure 2). In total, 196 species could be named, representing 28% of the BINs. All of the BINs were assigned at least to family and 60% were assigned to a genus. Specimens collected from this park represent 153 different families and 307 genera. A taxonomic reference for all BINs captured and a full species inventory are provided Supplementary File Tab 5 and 6, respectively.

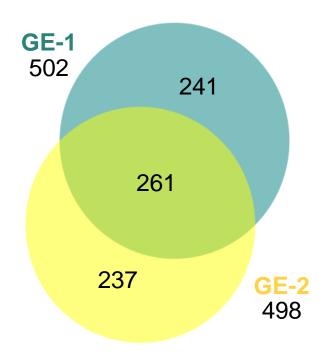


Figure 1. Venn diagram showing the species overlap between the two traps.

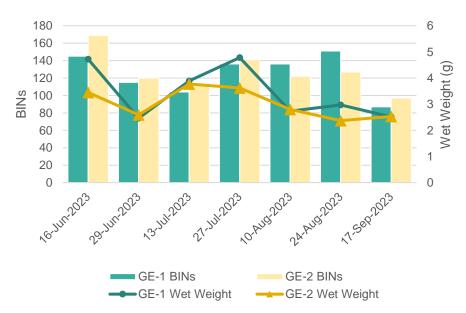


Figure 2. Species diversity (measured by BINs) and insect biomass (measured by wet weight of the sample) captured at the two traps over the 2023 collecting period.