TERRESTRIAL ARTHROPOD MONITORING PROGRAM METABARCODING REPORT – KOKANEE CREEK (KC)

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Results

A total of 1,904 different BINs (Barcode Index Numbers; a proxy for species) were encountered at Kokanee Creek Provincial Park. Both traps captured a similar number of BINs and there was an overlap of 335 BINs between the traps (Figure 1). Species diversity and insect abundance varied throughout the collecting period; the sample that contained the most BINs was not the largest collected, and the peaks of species diversity were in late July for both traps (Figure 2). In total, 552 species could be named, representing 31% of the BINs. All of the BINs were assigned at least to family and 73% were assigned to a genus. Specimens collected from this park represent 213 different families and 771 genera. A taxonomic reference for all BINs captured and a species inventory are full provided in Supplementary File Tab 5 and 6, respectively.

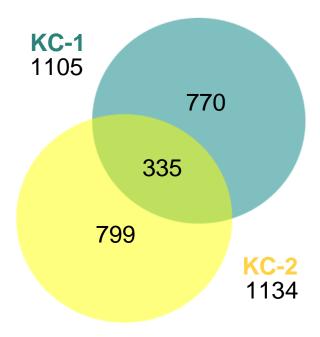


Figure 1. Venn diagram showing the species overlap between the two traps.

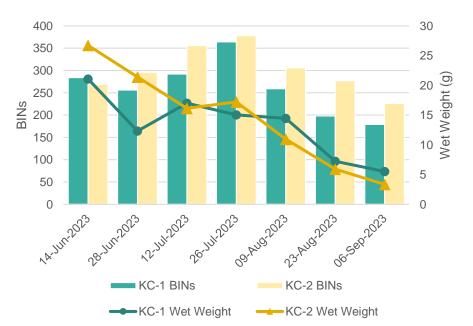


Figure 2. Species diversity (measured by BINs) and insect biomass (measured by wet weight of the sample) captured at the two traps over the 2023 collecting period.