A graph of a number of data

Description automatically generated with medium confidence

(B)

A graph of a number of people

Description automatically generated with medium confidence

(C)

A graph of a number of people

Description automatically generated with medium confidence

(D)

**Supplemental Figure 3-1:** Upset Plot of Candidate SNPs Identified for Local Adaptation and Environmental Association Across LFMM, RDA, Pcadapt, and BayesScan Analysis in Cx. Tarsalis. (A) LFMM PC2 across other methods (B) LFMM PC2 across other methods

(C) LFMM PC1 and PC2 across other methods (D) LFMM PC1, PC2 and PC3 across other methods

A close-up of a colorful pattern

AI-generated content may be incorrect.

**Supplemental Figure 3-2: Correlation Heatmap between Environmental Variables and RDA Candidate SNPs.** This heatmap illustrates the correlation between the environmental variables and candidate SNPs identified through the first four constrained axes of Redundancy Analysis (RDA). Each column on the x-axis represents a candidate SNP. Detailed SNP names and associated information on the 17 genes identified by SIFT4G

A grid of green squares

AI-generated content may be incorrect.

Supplemental Figure 3-3 Kendall's Tau p-values Heatmap for National CDC Dataset: Annual Human Cases vs. Environmental Variables

A screenshot of a computer screen

AI-generated content may be incorrect.

Supplemental Figure 3-4 Kendall’s Correlation between Environmental Variables and WNV Disease Count Using CDPH-Official Dataset