| Factor | Df | Wilks | approx. F | numerator Df | denominator Df | Pr(>F) |
|---|---|---|---|---|---|---|
| salt environment | 1 | 0.13728 | 523.41 | 7 | 583.0 | < 2.2e-16 |
| population | 3 | 0.30973 | 40.20 | 21 | 1674.6 | < 2.2e-16 |
| temperature | 1 | 0.52131 | 76.48 | 7 | 583.0 | < 2.2e-16 |
| humidity | 1 | 0.98677 | 1.12 | 7 | 583.0 | 0.3508 |
| log density | 1 | 0.26888 | 226.47 | 7 | 583.0 | < 2.2e-16 |
| Assay year | 1 | 0.58612 | 58.81 | 7 | 583.0 | < 2.2e-16 |
| block effect | 96 | 0.17860 | 1.70 | 672 | 4085.4 | < 2.2e-16 |
| salt environment x population | 3 | 0.82841 | 5.40 | 21 | 1674.6 | 3.99e-14 |
| temperature x humidity | 1 | 0.98433 | 1.33 | 7 | 583.0 | 0.2352 |
| temperature x log density | 1 | 0.93379 | 5.91 | 7 | 583.0 | 1.20e-06 |
| humidity x log density | 1 | 0.99185 | 0.68 | 7 | 583.0 | 0.6856 |
| temperature x humidity x log density | 1 | 0.98383 | 1.37 | 7 | 583.0 | 0.2160 |
| Residuals | 589 | | | | | |

**Raw output from R is available at:**  https://github.com/ExpEvolWormLab/Mallard_Robertson/tree/main/output_files/txt/output_files/txt/Manova_results.txt