**Supplemental Table 1. Average values and standard errors (SE) of kinematics and performance parameters.** Averages are of all sequences for all individuals of each species. TL = Total Length; DR = Distance Ratio; COM = Center of Mass; WA = Wave Amplitude; SF = Stride Frequency; CC = Curvature Coefficient.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** |  | **TL (cm)** | **Head DR** | **Tail DR** | **COM DR** | **Head WA** | **Tail WA** | **COM WA** | **Velocity (cm/s)** | **Relative Velocity (TL/S)** | **SF (Hz)** | **CC** |
| **PD** | Avg | 31.0 | 0.401 | 0.076 | 0.376 | 0.064 | 0.294 | 0.07 | 17.0 | 0.551 | 3.91 | 0.579 |
|  | SE | 2.79 | 0.016 | 0.009 | 0.023 | 0.004 | 0.013 | 0.003 | 2.37 | 0.070 | 0.243 | 0.023 |
| **PM** | Avg | 33.8 | 0.401 | 0.061 | 0.346 | 0.061 | 0.318 | 0.074 | 14.8 | 0.454 | 3.29 | 0.671 |
|  | SE | 1.55 | 0.020 | 0.006 | 0.030 | 0.005 | 0.016 | 0.004 | 3.76 | 0.123 | 0.492 | 0.023 |
| **HP** | Avg | 8.62 | 0.362 | 0.089 | 0.584 | 0.071 | 0.314 | 0.045 | 5.99 | 0.680 | 5.56 | 0.571 |
|  | SE | 0.293 | 0.020 | 0.011 | 0.025 | 0.003 | 0.011 | 0.003 | 0.739 | 0.080 | 0.673 | 0.017 |
| **PG** | Avg | 7.87 | 0.374 | 0.052 | 0.533 | 0.048 | 0.382 | 0.030 | 2.98 | 0.377 | 4.21 | 0.672 |
|  | SE | 0.123 | 0.028 | 0.009 | 0.021 | 0.003 | 0.017 | 0.002 | 0.323 | 0.042 | 0.314 | 0.025 |