Statistical analysis of Logistic, Gompertz, Schumacher mathematical models.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Locality** | **Formula** | **Parameter** | **Std. Error** | **t -value** | **R2** | **AICC** |
| ***P. rodolfo-vasquezii*** | **Paucho** | **Logistic** | a= 7.4 | 0.137 | 53.92 | 0.906 | 867 |
| b=6.267 | 0.202 | 31.01 |
| c=0.21 | 0.006 | 30.77 |
| **Linear** | a=0.92 | 0.041 | 22.12 | 0.88 | 996 |
| b=0.295 | 0.004 | 62.12 |
| **Quilcaycocha** | **Logistic** | a= 5.152 | 0.168 | 30.54 | 0.755 | 901 |
| b=3.557 | 0.142 | 24.88 |
| c=0.171 | 0.011 | 14.58 |
| **Linear** | a=1.177 | 0.036 | 32.41 | 0.741 | 929 |
| b=0.172 | 0.004 | 39.56 |
| ***P. flavipila*** | **Shaitura** | **Logistic** | a= 9.755 | 0.692 | 14.09 | 0.631 | 707 |
| b=5.381 | 0.696 | 7.72 |
| c=0.126 | 0.018 | 6.89 |
| **Linear** | a=1.453 | 0.212 | 6.82 | 0.617 | 712 |
| b=0.244 | 0.013 | 17.57 |
| **Chaqsii-Chaqssi** | **Schumacher** | a=1.223 | 0.055 | 22.11 | 0.031 | 598 |
| b=-1.484 | 0.559 | -2.65 |
| **Linear** | a=2.320 | 0.174 | 13.28 | 0.055 | 591 |
| b=0.052 | 0.013 | 3.79 |
| ***P. canoi*** | **Tasta** | **Logistic** | a=14.188 | 1.906 | 7.442 | 0.692 | 385 |
| b=4.213 | 0.501 | 8.403 |
| c=0.042 | 0.008 | 4.778 |
| **Linear** | a=2.496 | 0.368 | 6.77 | 0.68 | 386 |
| b=136 | 0.008 | 15.9 |
| **Nahuin** | **Logistic** | a=10.924 | 0.505 | 21.605 | 0.633 | 670 |
| b=5.984 | 1.465 | 4.082 |
| c=0.125 | 0.02 | 6.223 |
| **Linear** | a=2.419 | 0.373 | 6.481 | 0.595 | 681 |
| b=0.217 | 0.014 | 15.33 |
| **Jucha** | **Schumacher** | a=2.23 | 0.054 | 41.27 | 0.37 | 665 |
| b=-6.405 | 0.701 | -9.12 |
| **Linear** | a=2.981 | 0.307 | 9.7 | 0.31 | 682 |
| b=0.18 | 0.02 | 9 |
| **Llantaco** | **Gompertz** | a=13.478 | 2.572 | 5.23 | 0.507 | 816 |
| b=0.765 | 0.076 | 10.06 |
| c=0.078 | 0.021 | 3.58 |
| **Linear** | a=1.556 | 0.32 | 4.85 | 0.501 | 815 |
| b=0.349 | 0.023 | 14.68 |