# SUPPLEMENTARY MATERIAL

**Table S1** Model structures for survival based on plant size (diameter) with corresponding Akaike Information Criterion (AIC) scores for two populations of the pracuuba tree *Mora paraensis* during four sampling intervals. The models selected are highlighted in bold with their respective coefficients.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Population** | **Sampling interval 1** | **Sampling interval 2** | **Sampling interval 3** | **Sampling interval 4** |
| **Model structure** | **AIC** | **Model structure** | **AIC** | **Model structure** | **AIC** | **Model structure** | **AIC** |
| **Near** | surv ~ 1  | 105.5 | surv ~ 1 | 105.5 | surv ~ 1 | 201.5 | surv ~ 1 | 129.0 |
| **surv ~ 0.24size** | **107.4** | **surv ~ 0.98size** | **106.7** | surv ~ size | 202.7 | **surv ~ -0.56size** | **130.6** |
| surv ~ size + size² | 109.4 | surv ~ size + size² | 104.9 | surv ~ size + size² | 204.7 | surv ~ size + size² | 132.0 |
| surv ~ size + size² + size³ | 111.4 | surv ~ size + size² + size³ | 105.9 | **surv ~ 109.32size – 94.87size² + 26.42size³** | **198.4** | surv ~ size + size² + size³ | 133.9 |
|  |  |  |  |  |  |  |  |  |
| **Distant** | surv ~ 1 | 53.1 | surv ~ 1 | 44.6 | **-** | **-** | surv ~ 1 | 53.2 |
| **surv ~ 11.83size** | **42.3** | surv ~ size | 46.4 | **-** | **-** | **surv ~ 1.43size** | **54.1** |
| surv ~ size + size² | 44.3 | surv ~ size + size² | 47.5 | **-** | **-** | surv ~ size + size² | 56.1 |
| surv ~ size + size² + size³ | 45.8 | **surv ~ 322.97size – 268.01size² + 70.62size³** | **41.9** | **-** | **-** | surv ~ size + size² + size³ | 58.1 |

**Table S2** Model structures for growth based on plant size (diameter) with corresponding Akaike Information Criterion (AIC) scores for two populations of the pracuuba tree *Mora paraensis* during four sampling intervals. The models selected are highlighted in bold with their respective coefficients.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Population** | **Sampling interval 1** | **Sampling interval 2** | **Sampling interval 3** | **Sampling interval 4** |
| **Model structure** | **AIC** | **Model structure** | **AIC** | **Model structure** | **AIC** | **Model structure** | **AIC** |
| **Near** | sizeNext ~ 1 | 431.7 | sizeNext ~ 1 | 424.1 | sizeNext ~ 1 | 416.8 | sizeNext ~ 1 | 393.5 |
| **sizeNext ~ 0.99size** | **-3393.5** | sizeNext ~ size | -3808.7 | sizeNext ~ size | -3526.5 | sizeNext ~ size | -1981.9 |
| sizeNext ~ size + size² | -3393.4 | **sizeNext ~ 1.03size – 0.01size²** | **-3817.4** | **sizeNext ~ 1.12size – 0.08size²** | **-3536.1** | sizeNext ~ size + size² | -1983.7 |
| sizeNext ~ size + size² + size³ | -3392.4 | sizeNext ~ size + size² + size³ | -3816.8 | sizeNext ~ size + size² + size³ | -3535.2 | **sizeNext ~ 0.25size +0.64size² - 0.18size³** | **-1992.7** |
|  |  |  |  |  |  |  |  |  |
| **Distant** | sizeNext ~ 1 | 257.5 | sizeNext ~ 1 | 257.5 | **-** | **-** | sizeNext ~ 1 | 260.7 |
| sizeNext ~ size | -1595.6 | **sizeNext ~ 0.99size** | **-1484.8** | **-** | **-** | **sizeNext ~ 095size** | **-534.6** |
| sizeNext ~ size + size² | -1598.7 | sizeNext ~ size + size² | -1483.4 | **-** | **-** | sizeNext ~ size + size² | -534.1 |
| **sizeNext ~ 1.29size – 0.23size² + 0.05size³** | **-1601.4** | sizeNext ~ size + size² + size³ | -1481.8 | **-** | **-** | sizeNext ~ size + size² + size³ | -532.5 |