| Coeffcient | Survival Model | | | Height Growth Model | | |
| --- | --- | --- | --- | --- | --- | --- |
| | Log-Odds | CI (95%) | P-Value | Estimates | CI (95%) | P-Value |
| (Intercept) | -12.38 | -22.08 – -2.68 | **0.012** | 0.08 | -1.55 – 1.72 | 0.921 |
| Initial height [sqrt] | 0.69 | 0.56 – 0.82 | **<0.001** | -0.04 | -0.07 – -0.02 | **0.001** |
| Innoculation treatment [YES] | -0.10 | -0.48 – 0.28 | 0.615 | 0.00 | -0.05 – 0.05 | 0.986 |
| Compost treatment [YES] | -0.53 | -0.74 – -0.33 | **<0.001** | 0.02 | -0.00 – 0.05 | 0.083 |
| Mean elevation | 0.13 | 0.02 – 0.24 | **0.020** | 0.01 | -0.01 – 0.03 | 0.203 |
| Cross-fall | 0.35 | -0.15 – 0.84 | 0.168 | 0.06 | -0.04 – 0.15 | 0.252 |
| Trait PC1 | 0.22 | -0.18 – 0.63 | 0.277 | 0.07 | -0.01 – 0.15 | 0.084 |
| Trait PC2 | 0.26 | -0.18 – 0.69 | 0.245 | 0.06 | -0.02 – 0.15 | 0.154 |
| Trait PC3 | -0.18 | -0.83 – 0.47 | 0.587 | 0.06 | -0.07 – 0.18 | 0.395 |
| Census duration | -0.00 | -0.00 – 0.00 | 0.789 | -0.00 | -0.00 – 0.00 | 0.338 |
| Innoculation treatment [YES] : compost treatment [YES] | 0.19 | -0.05 – 0.42 | 0.115 | 0.01 | -0.02 – 0.04 | 0.542 |
| Initial height [sqrt] : trait PC1 | -0.01 | -0.09 – 0.07 | 0.815 | -0.01 | -0.02 – 0.01 | 0.363 |
| Initial height [sqrt] : trait PC2 | -0.02 | -0.11 – 0.07 | 0.649 | -0.01 | -0.02 – 0.01 | 0.509 |
| Initial height [sqrt] : trait PC3 | 0.15 | 0.01 – 0.29 | **0.033** | -0.00 | -0.03 – 0.03 | 0.988 |
| Innoculation treatment [YES] : trait PC1 | -0.01 | -0.15 – 0.14 | 0.924 | -0.01 | -0.02 – 0.00 | 0.091 |
| Innoculation treatment [YES] : trait PC2 | -0.08 | -0.23 – 0.07 | 0.317 | -0.01 | -0.03 – 0.01 | 0.282 |
| Innoculation treatment [YES] : trait PC3 | -0.03 | -0.25 – 0.20 | 0.810 | 0.02 | -0.00 – 0.04 | 0.132 |
| Compost treatment [YES] : trait PC1 | 0.03 | -0.08 – 0.13 | 0.605 | 0.01 | -0.00 – 0.02 | 0.176 |
| Compost treatment [YES] : trait PC2 | 0.01 | -0.10 – 0.12 | 0.810 | 0.01 | -0.01 – 0.03 | 0.196 |
| Compost treatment [YES] : trait PC3 | -0.00 | -0.17 – 0.17 | 0.992 | 0.00 | -0.02 – 0.02 | 0.971 |

**Random Effects**

| | Survival Model | Height Growth Model |
| --- | --- | --- |
| $\sigma^2$ | 3.29 | 0.11 |
| $\tau_{00}$ | 0.34 plot | 0.01 plot:block |
| | 0.88 species | 0.04 species |
| | | 0.01 block |
| $\tau_{11}$ | 0.03 species.sqrt(height_baseline_cm) | 0.00 species.sqrt(height_baseline_cm) |
| | 0.06 species.innoculationYES | 0.00 species.compostYES |
| | 0.03 species.compostYES | |
| $\rho_{01}$ | -0.62 species.sqrt(height_baseline_cm) | -0.79 species.sqrt(height_baseline_cm) |
| | -0.63 species.innoculationYES | -0.90 species.compostYES |
| | -0.76 species.compostYES | |
| ICC | 0.22 | 0.22 |
| N | 60 plot | 60 plot |
| | 13 species | 2 block |
| | | 13 species |
| Observations | 9991 | 7781 |
| Marginal R$^2$ / Conditional R$^2$ | 0.222 / 0.392 | 0.101 / 0.295 |