|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Intercept only** | **GLS** | **LMM1** | **LMM2** |
| *Predictors* | *Estimates* | *Estimates* | *Estimates* | *Estimates* |
| (Intercept) | 3.16 \*\*\* | 2.02 \*\*\* | 2.05 \*\*\* | 2.08 \*\*\* |
| temp C |  | 0.08 \*\* | 0.07 \*\*\* | 0.07 \*\*\* |
| nutrient trt [1] |  | -0.50 | 0.23 \*\* | 0.22 \*\* |
| month [1] |  | 1.11 \* | -0.53 \*\*\* | -0.49 \*\* |
| month [2] |  | 0.16 | 0.83 \*\*\* | 0.78 \*\*\* |
| month [3] |  | -0.08 | 0.37 | 0.41 \* |
| month [4] |  | 0.36 | -0.33 | -0.33 \*\* |
| temp C \* nutrient trt [1] |  | 0.02 | -0.01 \* | -0.01 \* |
| temp C \* month [1] |  | -0.04 | 0.04 \*\*\* | 0.04 \*\* |
| temp C \* month [2] |  | -0.01 | -0.03 \*\* | -0.03 \*\*\* |
| temp C \* month [3] |  | -0.02 | -0.02 | -0.02 \* |
| temp C \* month [4] |  | -0.03 | -0.01 | -0.01 |
| nutrient trt [1] \* month [1] |  | 0.36 | 0.00 | 0.01 |
| nutrient trt [1] \* month [2] |  | -0.12 | -0.05 | -0.02 |
| nutrient trt [1] \* month [3] |  | -0.27 | -0.10 | -0.11 |
| nutrient trt [1] \* month [4] |  | -0.70 | -0.05 | -0.09 |
| (temp C \* nutrient trt [1]) \* month [1] |  | -0.03 | -0.00 | -0.00 |
| (temp C \* nutrient trt [1]) \* month [2] |  | 0.00 | 0.01 | 0.00 |
| (temp C \* nutrient trt [1]) \* month [3] |  | 0.01 | 0.00 | 0.00 |
| (temp C \* nutrient trt [1]) \* month [4] |  | 0.05 | 0.01 | 0.01 |
| **Random Effects** | | | | |
| σ2 |  |  | 0.02 | 0.01 |
| τ00 |  |  | 0.09 rock\_ID | 0.09 rock\_ID |
| ICC |  |  | 0.82 | 0.94 |
| N |  |  | 78 rock\_ID | 78 rock\_ID |
| Observations | 153 | 153 | 153 | 153 |
| R2 | -2.310 | -2.261 | 0.729 / 0.950 | 0.745 / 0.984 |
| AIC | 1240.501 | 1074.890 | 995.905 | 970.945 |
| *\* p<0.05   \*\* p<0.01   \*\*\* p<0.001* | | | | |