|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Intercept only** | **GLS** | **LMM1** | **LMM2** | **LMM3** | **LMM4** |
| *Predictors* | *Estimates* | *Estimates* | *Estimates* | *Estimates* | *Estimates* | *Estimates* |
| (Intercept) | 4.36 \*\*\* | 3.36 \*\*\* | 3.91 \*\*\* | 3.92 \*\*\* | 3.88 \*\*\* | 3.91 \*\*\* |
| temp C |  | 0.10 \*\*\* | 0.03 \*\*\* | 0.03 \*\*\* | 0.04 \*\*\* | 0.03 \*\*\* |
| nutrient trt [1] |  | 0.38 | 0.02 | 0.01 | 0.02 | 0.01 |
| month [1] |  | 0.92 | -0.52 \*\*\* | -0.51 \*\*\* | -0.51 \*\*\* | -0.51 \*\*\* |
| month [2] |  | 0.85 | 0.47 \*\* | 0.47 \* | 0.45 \* | 0.44 \* |
| month [3] |  | 0.23 | 0.92 \*\*\* | 0.94 \*\*\* | 0.88 \*\*\* | 0.93 \*\*\* |
| month [4] |  | 0.96 \* | -0.63 \*\*\* | -0.64 \*\*\* | -0.61 \*\*\* | -0.63 \*\*\* |
| temp C \* nutrient trt [1] |  | -0.04 | -0.00 | 0.00 | -0.00 | 0.00 |
| temp C \* month [1] |  | -0.09 \*\* | 0.06 \*\*\* | 0.06 \*\*\* | 0.06 \*\*\* | 0.06 \*\*\* |
| temp C \* month [2] |  | -0.08 \* | -0.04 \*\*\* | -0.04 \*\*\* | -0.03 \*\*\* | -0.03 \*\*\* |
| temp C \* month [3] |  | -0.06 \* | -0.04 \*\*\* | -0.05 \*\*\* | -0.04 \*\*\* | -0.04 \*\*\* |
| temp C \* month [4] |  | -0.10 \*\* | 0.01 | 0.01 \* | 0.01 | 0.01 \* |
| nutrient trt [1] \* month [1] |  | 0.07 | -0.06 | -0.06 | -0.05 | -0.04 |
| nutrient trt [1] \* month [2] |  | -0.58 | -0.20 | -0.19 | -0.18 | -0.17 |
| nutrient trt [1] \* month [3] |  | -1.17 | -0.05 | -0.04 | -0.07 | -0.08 |
| nutrient trt [1] \* month [4] |  | -1.44 \* | 0.13 | 0.11 | 0.13 | 0.11 |
| (temp C \* nutrient trt [1]) \* month [1] |  | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 |
| (temp C \* nutrient trt [1]) \* month [2] |  | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 |
| (temp C \* nutrient trt [1]) \* month [3] |  | 0.08 | 0.01 | 0.00 | 0.01 | 0.01 |
| (temp C \* nutrient trt [1]) \* month [4] |  | 0.12 \* | -0.01 | -0.00 | -0.00 | -0.00 |
| **Random Effects** | | | | | | |
| σ2 |  |  | 0.01 | 0.02 | 0.01 | 0.01 |
| τ00 |  |  | 0.08 rock\_ID | 0.08 rock\_ID | 0.18 rock\_ID | 0.17 rock\_ID |
| τ11 |  |  |  |  | 0.00 rock\_ID.temp\_C | 0.00 rock\_ID.temp\_C |
| ρ01 |  |  |  |  | -0.92 rock\_ID | -0.81 rock\_ID |
| ICC |  |  | 0.87 | 0.81 | 0.89 | 0.85 |
| N |  |  | 78 rock\_ID | 78 rock\_ID | 78 rock\_ID | 78 rock\_ID |
| Observations | 153 | 153 | 153 | 153 | 153 | 153 |
| R2 | -7.023 | -7.014 | 0.670 / 0.956 | 0.656 / 0.935 | 0.665 / 0.962 | 0.655 / 0.947 |
| AIC | 1457.390 | 1418.530 | 1320.426 | 1311.276 | 1317.203 | 1305.541 |
| *\* p<0.05   \*\* p<0.01   \*\*\* p<0.001* | | | | | | |