**Linear Mixed Effects: colony member proportions within nest sections**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Coeffcient* | *Est.* | *SE* | **Workers** | | *P* | *Est.* | *SE* | **Brood** | *T* | *P* | *Est.* | *SE* | **Queens** | | *P* | *Est.* | *SE* | **Alates** | | *P* |
| *df* | *T* | *df* | *df* | *T* | *df* | *T* |
| Intercept | 0.145 | 0.009 | 3181 | 16.566 | **<0.001** | -0.127 | 0.013 | 3173 | -9.489 | **<0.001** | -0.161 | 0.031 | 3181 | -5.157 | **<0.001** | 0.363 | 0.060 | 446 | 6.073 | **<0.001** |
| NestSect | -0.006 | 0.004 | 3181 | -1.438 | 0.151 | 0.090 | 0.006 | 3173 | 14.888 | **<0.001** | 0.118 | 0.014 | 3181 | 8.331 | **<0.001** | -0.083 | 0.027 | 446 | -3.028 | **0.003** |
| NestSect2 | 0.000 | 0.000 | 3181 | 0.294 | 0.769 | -0.006 | 0.001 | 3173 | -9.596 | **<0.001** | -0.010 | 0.001 | 3181 | -6.479 | **<0.001** | 0.006 | 0.003 | 446 | 1.924 | 0.055 |
| Nest | 0.107 | 0.010 | 3181 | 10.486 | **<0.001** | 0.086 | 0.016 | 3173 | 5.487 | **<0.001** | 0.073 | 0.037 | 3181 | 2.003 | **0.045** | -0.192 | 0.069 | 446 | -2.787 | **0.006** |
| Density | 0.000 | 0.003 | 3181 | 0.000 | 1.000 | 0.000 | 0.004 | 3173 | 0.000 | 1.000 | 0.000 | 0.009 | 3181 | 0.000 | 1.000 | -0.000 | 0.003 | 446 | -0.000 | 1.000 |
| Day | 0.000 | 0.000 | 3181 | 0.000 | 1.000 | 0.000 | 0.001 | 3173 | 0.000 | 1.000 | 0.000 | 0.001 | 3181 | 0.000 | 1.000 |
| Corner | 0.019 | 0.004 | 3181 | 5.502 | **<0.001** | 0.027 | 0.005 | 3173 | 5.019 | **<0.001** | 0.029 | 0.013 | 3181 | 2.261 | **0.024** | -0.054 | 0.023 | 446 | -2.340 | **0.020** |
| NestSect:Nest | -0.040 | 0.006 | 3181 | -7.358 | **<0.001** | 0.009 | 0.008 | 3173 | 1.016 | 0.310 | 0.001 | 0.020 | 3181 | 0.048 | 0.962 | 0.052 | 0.037 | 446 | 1.414 | 0.158 |
| NestSect2:Nest | 0.003 | 0.001 | 3181 | 4.316 | **<0.001** | -0.005 | 0.001 | 3173 | -5.974 | **<0.001** | -0.004 | 0.002 | 3181 | -1.701 | 0.089 | -0.001 | 0.004 | 446 | -0.150 | 0.881 |

**Random Effects**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| σ2 | 0.01 | 0.01 | 0.07 | 0.03 |
| τ00 | 0.00 Colony | 0.00 Colony | 0.00 Colony | 0.00 Colony |
| N | 20 Colony | 20 Colony | 20 Colony | 7 Colony |
| Observations | 3192 | 3184 | 3192 | 456 |
| Marginal R2 / | 0.235 / 0.235 | 0.285 / 0.285 | 0.070 / 0.070 | 0.097 / 0.097 |

Conditional R2