|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Linear mixed effects model: Worker occurrence zone size & colony size**  Formula: Occur\_Area ~ Number.workers\*Nest\*Density + (1 | Colony ID) + (1 | Color ID) | | | | | |
| Random effects: | Name | Variance | Std. dev |  |  |
| ColorID | (Intercept) | 0.000 | 0.000 |  |  |
| Colony | (Intercept) | 0.007 | 0.084 |  |  |
| Residual |  | 0.153 | 0.391 |  |  |
| Fixed effects: | *β* a | *SE* b | *df* c | *t* d | *P* |
| (Intercept) | 0.003 | 0.133 | 50.935 | 0.020 | 0.984 |
| Number.workers | 0.008 | 0.001 | 37.727 | 7.292 | **<0.001** |
| Nest | 0.113 | 0.201 | 339.160 | 0.566 | 0.572 |
| Density | 0.006 | 0.182 | 26.546 | 0.032 | 0.974 |
| Number.workers\*Nest | -0.001 | 0.002 | 356.105 | -0.670 | 0.503 |
| Number.workers\*Density | 0.009 | 0.002 | 21.755 | 5.961 | **<0.001** |
| Number.workers\*Density | 0.072 | 0.266 | 291.213 | 0.271 | 0.786 |
| Number.workers\*Nest\*Density | -0.001 | 0.002 | 332.301 | -0.662 | 0.509 |
| Model Statistics: |  |  |  |  |  |
| Number of obs: 383, groups: Color ID, 228; Colony ID, 19  Marginal *R*2 = 0.802  Conditional *R*2 = 0.810  a Coefficient  b Standard error  c Degrees of freedom  d T statistic | | | | | |