|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Linear mixed effects model: Worker spatial fidelity zone size (cm2)**  Formula: SFZ\_Area ~ Nest\*Density + (1 | Colony ID) + (1 | Color ID) | | | | | |
| Random effects: | Name | Variance | Std. dev |  |  |
| Color ID | (Intercept) | 0.004 | 0.061 |  |  |
| Colony ID | (Intercept) | 0.022 | 0.147 |  |  |
| Residual |  | 0.057 | 0.240 |  |  |
| Fixed effects: | *β* a | *SE* b | *df* c | *t* d | *P* |
| (Intercept) | 0.223 | 0.059 | 22.776 | 3.804 | **0.001** |
| Nest | -0.021 | 0.043 | 271.664 | -0.478 | 0.633 |
| Density | 0.145 | 0.083 | 19.075 | 1.759 | 0.095 |
| Nest\*Density | 0.039 | 0.056 | 271.487 | 0.695 | 0.488 |
| Model Statistics: |  |  |  |  |  |
| Number of obs: 383, groups: Color ID, 228; Colony ID, 19  Marginal *R*2 = 0.069, Conditional *R*2 = 0.354  a Coefficient  b Standard error  c Degrees of freedom  d T statistic | | | | | |