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| --- | --- | --- | --- | --- | --- |
| **Linear mixed effects model: Worker spatial fidelity zone size & colony size**  Formula: SFZ\_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) | -0.002 | 0.075 | 61.545 | -0.020 | 0.984 |
| Number.workers | 0.002 | 0.001 | 40.478 | 3.739 | **0.001** |
| Nest | 0.065 | 0.123 | 271.567 | 0.528 | 0.598 |
| Density | 0.049 | 0.097 | 20.760 | 0.506 | 0.618 |
| Number.workers\*Nest | -0.001 | 0.001 | 290.909 | -0.831 | 0.407 |
| Number.workers\*Density | 0.001 | 0.001 | 17.218 | 1.273 | 0.220 |
| Number.workers\*Density | -0.239 | 0.161 | 186.119 | -1.485 | 0.139 |
| Number.workers\*Nest\*Density | 0.002 | 0.001 | 238.749 | 1.832 | 0.068 |
| Model Statistics: |  |  |  |  |  |
| Number of obs: 383, groups: ColorID, 228; Colony, 19  Marginal *R*2 = 0.348, Conditional *R*2 = 0.379  a Coefficient  b Standard error  c Degrees of freedom  d T statistic | | | | | |