|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Linear mixed effects model: Proportions of queens**  Formula: PropQueens ~ poly(NestSect, degree = 2, raw = TRUE)\*Nest\*Density + Day + Corner + (1 | Colony ID) | | | | | |
|
| Random effects: | Name | Variance | Std. dev |  |  |
| Colony ID | (Intercept) | 0.000 | 0.000 |  |  |
| Residual |  | 0.060 | 0.246 |  |  |
| Fixed effects: | *β* a | *SE* b | *df* c | *t* d | *P* |
| (Intercept) | -0.187 | 0.038 | 3178 | -4.863 | **<0.001** |
| NestSect | 0.122 | 0.018 | 3178 | 6.645 | **<0.001** |
| NestSect2 | -0.009 | 0.002 | 3178 | -4.800 | **<0.001** |
| Nest | 0.096 | 0.049 | 3178 | 1.961 | **0.050** |
| Density | 0.050 | 0.049 | 3178 | 1.041 | 0.298 |
| Day | 0.000 | 0.001 | 3178 | 0.000 | 1.000 |
| Corner | 0.029 | 0.012 | 3178 | 2.412 | **0.016** |
| NestSect\*Nest | -0.003 | 0.026 | 3178 | -0.099 | 0.921 |
| NestSect2\*Nest | -0.004 | 0.003 | 3178 | -1.403 | 0.161 |
| NestSect\*Density | -0.010 | 0.025 | 3178 | -0.416 | 0.677 |
| NestSect2\*Density | 0.000 | 0.003 | 3178 | -0.061 | 0.952 |
| Nest\*Density | -0.028 | 0.069 | 3178 | -0.412 | 0.681 |
| NestSect\*Nest\*Density | 0.000 | 0.035 | 3178 | -0.010 | 0.992 |
| NestSect2\*Nest\*Density | 0.001 | 0.004 | 3178 | 0.308 | 0.759 |
| Model Statistics: |  |  |  |  |  |
| Number of obs: 3192, groups: Colony ID, 20  Marginal *R*2 = 0.076, Conditional *R*2 = 0.076  a Coefficient  b Standard error  c Degrees of freedom  d T statistic | | | | | |