|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logistic regression: Max worker and simulated proportions**  Formula: MaxNestSect ~ NestSect\*WorkerType\*Nest\*Density, family = Binomial | | | | |
| Coefficients | *β* a | *SE* b | *Z* c | *P* |
| (Intercept) | 0.116 | 0.326 | 0.357 | 0.721 |
| NestSect | -0.785 | 0.188 | -4.176 | **<0.001** |
| NestSect2 | 0.066 | 0.021 | 3.095 | **0.002** |
| WorkerType | -1.817 | 0.348 | -5.222 | **<0.001** |
| Nest | 2.721 | 0.519 | 5.245 | **<0.001** |
| Density | -0.470 | 0.469 | -1.003 | 0.316 |
| NestSect\*WorkerType | 0.921 | 0.198 | 4.640 | **<0.001** |
| NestSect2\*WorkerType | -0.092 | 0.022 | -4.110 | **<0.001** |
| NestSect\*Nest | -1.550 | 0.335 | -4.621 | **<0.001** |
| NestSect2\*Nest | 0.126 | 0.040 | 3.185 | **0.001** |
| WorkerType\*Nest | -3.294 | 0.549 | -6.004 | **<0.001** |
| NestSect\*Density | 0.373 | 0.272 | 1.374 | 0.169 |
| NestSect2\*Density | -0.051 | 0.031 | -1.638 | 0.101 |
| WorkerType\*Density | 1.704 | 0.497 | 3.431 | **0.001** |
| Nest\*Density | -0.934 | 0.711 | -1.312 | 0.189 |
| NestSect\*WorkerType\*Nest | 1.721 | 0.347 | 4.953 | **<0.001** |
| NestSect2\*WorkerType\*Nest | -0.133 | 0.041 | -3.262 | **0.001** |
| NestSect\*WorkerType\*Density | -1.242 | 0.286 | -4.348 | **<0.001** |
| NestSect2\*WorkerType\*Density | 0.156 | 0.033 | 4.737 | **<0.001** |
| NestSect\*Nest\*Density | 0.535 | 0.450 | 1.189 | 0.234 |
| NestSect2\*Nest\*Density | -0.034 | 0.053 | -0.629 | 0.529 |
| WorkerType\*Nest\*Density | 0.450 | 0.751 | 0.598 | 0.550 |
| NestSect\*WorkerType\*Nest\*Density | -0.018 | 0.467 | -0.038 | 0.969 |
| NestSect2\*WorkerType\*Nest\*Density | -0.037 | 0.055 | -0.677 | 0.498 |
| Number of obs: 35192  Null deviance: 29825 on 35191 degrees of freedom  Residual deviance: 29117 on 35168 degrees of freedom  AIC: 29165  Number of Fisher’s scoring iterations: 6  a Effect size  b Standard error  c Z statistic | | | | |