

Linear Mixed Effects: colony member scaled distances to the brood center

| Coefficient | Workers | | | | | Queens | | | | | Alates | | | | |
|------------------------------------------------------|---------------|--------|-----------|--------|--------|---------------|--------|---------|--------|--------|---------------|--------|---------|--------|--------|
| | Est. | SE | df | T | P | Est. | SE | df | T | P | Est. | SE | df | T | P |
| Intercept | 0.093 | 0.007 | 26725.000 | 14.035 | <0.001 | 0.052 | 0.016 | 940.000 | 3.341 | 0.001 | 0.100 | 0.039 | 668.000 | 2.566 | 0.011 |
| Nest | 0.103 | 0.002 | 26725.000 | 45.580 | <0.001 | 0.098 | 0.012 | 940.000 | 7.937 | <0.001 | 0.211 | 0.018 | 668.000 | 11.672 | <0.001 |
| Density | -0.009 | 0.009 | 26725.000 | -0.994 | 0.320 | 0.029 | 0.019 | 940.000 | 1.564 | 0.118 | | | | | |
| Day | 0.000 | 0.000 | 26725.000 | 0.802 | 0.423 | -0.002 | 0.001 | 940.000 | -1.675 | 0.094 | -0.004 | 0.002 | 668.000 | -1.961 | 0.050 |
| Corner | 0.036 | 0.002 | 26725.000 | 21.145 | <0.001 | 0.039 | 0.011 | 940.000 | 3.629 | <0.001 | 0.011 | 0.012 | 668.000 | 0.922 | 0.357 |
| Nest:Density | 0.034 | 0.003 | 26725.000 | 11.769 | <0.001 | -0.011 | 0.014 | 940.000 | -0.794 | 0.427 | | | | | |
| Sex | | | | | | | | | | | 0.043 | 0.015 | 668.000 | 2.870 | 0.004 |
| SexRatio | | | | | | | | | | | -0.018 | 0.043 | 668.000 | -0.424 | 0.671 |
| Random Effects | | | | | | | | | | | | | | | |
| σ ² | 0.01 | | | | | 0.01 | | | | | 0.02 | | | | |
| τ ₀₀ | 0.00 | Colony | | | | 0.00 | Colony | | | | 0.00 | Colony | | | |
| N | 20 | Colony | | | | 20 | Colony | | | | 7 | Colony | | | |
| Observations | 26733 | | | | | 948 | | | | | 676 | | | | |
| Marginal R ² / Conditional R ² | 0.279 / 0.301 | | | | | 0.260 / 0.338 | | | | | 0.340 / 0.346 | | | | |