

Linear Mixed Effects: individual worker site fidelity v. scaled distance to the brood center										
Coefficient	Scaled Fidelity Zone					Scaled Occurrence Zone				
	Est.	SE	df	T	P	Est.	SE	df	T	P
Intercept	2.032	0.311	373.000	6.540	<0.001	5.092	0.464	373.000	10.982	<0.001
MeanToBrood	-3.928	3.169	373.000	-1.240	0.216	9.246	4.605	373.000	2.008	0.045
Nest	-0.287	0.378	373.000	-0.759	0.448	0.817	0.545	373.000	1.499	0.135
Density	-0.382	0.435	373.000	-0.880	0.380	1.875	0.653	373.000	2.869	0.004
MeanToBrood:Nest	2.897	3.313	373.000	0.875	0.382	-9.579	4.796	373.000	-1.997	0.047
MeanToBrood:Density	0.666	4.549	373.000	0.146	0.884	-17.467	6.643	373.000	-2.629	0.009
Nest:Density	-0.310	0.532	373.000	-0.581	0.561	-2.251	0.776	373.000	-2.900	0.004
MeanToBrood:Nest:Density	1.411	4.710	373.000	0.299	0.765	19.137	6.865	373.000	2.788	0.006
Random Effects										
σ <sup>2</sup>	0.69					1.41				
τ <sub>00</sub>	0.02 AntID					0.06 AntID				
	0.03 Colony					0.13 Colony				
N	19 Colony					19 Colony				
	228 AntID					228 AntID				
Observations	384					384				
Marginal R <sup>2</sup> / Conditional R <sup>2</sup>	0.036 / 0.095					0.039 / 0.155				