S4 Table. Analysis and post hoc contrast results results showing the effect of exposure to imidacloprid on capped brood area for hives not exposed to coumaphos from a field experiment conducted in Mississippi 2015. Analyses were conducted using mixed-model ANOVA, with adult bee population estimates prior to treatment used as covariates. The ante(1) covariance structure was chosen using the Akaike Information Criterion. Degrees of freedom were calculated using the Kenward-Roger method. Post hoc contrasts, using the Bonferroni correction, are shown at the bottom.

Effect	Num DF	Den DF	F Value	Adj P
Imidacloprid	3	11.51	23.19	< 0.0001
Sampling occasion	2	11.22	20.82	0.0002
Imida x sampl. occ.	6	12.86	3.02	0.0455
Occupied spaces	1	10.93	0.52	0.4846
Post hoc contrasts	DF	Estimate	Standard Error	Adj P
0 ppb vs 5 ppb	12.8	78.9	18.7	0.0077
0 ppb vs 20 ppb	11.6	96.4	16.9	0.0007
0 ppb vs 100 ppb	12.2	143.1	17.7	< 0.0001
20 ppb vs 5 ppb	11.4	-17.5	16.6	1.0000
100 ppb vs 5 ppb	11.0	-64.2	16.1	0.0119
100 ppb vs 20 ppb	11.0	-46.7	16.1	0.0842