AMBUSH BUGS

*Visitation*

613 total visits from *Melissodes*, although only 222 actually landed on flowers. Females made up 24% of visits (147 compared to 466 male visits) and were over four times more likely to land during a visit than males (88% landed compared to only 21% of males, Kruskal-Wallace: χ2(1) = 40.62, p < 0.0001), although there was no effect of ambush bug presence on landing in either sex (males: χ2(1) = 0.88 p = 0.348; females: χ2(1) = 1.91, p = 0.167).

ANOVA on 613 total *Melissodes* visits (n=20 control flowers, 20 treatment flowers):

log10(total visits) ~ Treatment + Sex + Treatment\*Sex

| Source | Nparm | DF | Sum of Squares | F Ratio | Prob > F |
| --- | --- | --- | --- | --- | --- |
| Treatment | 1 | 1 | 0.0000422 | 0.0004 | 0.9848 |
| sex | 1 | 1 | 2.8769458 | 24.9033 | <.0001\* |
| Treatment\*sex | 1 | 1 | 0.3395344 | 2.9391 | 0.0915 |



ANOVA on 222 landing *Melissodes* visits (n=20 control flowers, 20 treatment flowers):

log10(landings + 1) ~ Treatment + Sex + Treatment\*Sex

| Source | Nparm | DF | Sum of Squares | F Ratio | Prob > F |
| --- | --- | --- | --- | --- | --- |
| Treatment | 1 | 1 | 0.04539801 | 0.4892 | 0.4869 |
| sex | 1 | 1 | 0.99380569 | 10.7100 | 0.0017\* |
| Treatment\*sex | 1 | 1 | 0.01284523 | 0.1384 | 0.7111 |



AMBUSH BUGS

*Duration of visits*

One of these is coded as non-landing but the visit is 33 seconds, hence the huge error bar below. Can that be right? I included a unique flower ID which is included as a random effect to account for multiple visits to the same flower by different bees and avoid pseudoreplication. I left out the other random effects since you purposefully randomized treatments and draw times for recordings.

ANOVA on 391 non-landing *Melissodes* visits (n=20 control flowers, 20 treatment flowers).

log10(seconds) ~ Treatment + Sex + Treatment\*Sex + (flowerID)

| Source | Nparm | DF | DFDen | F Ratio | Prob > F |
| --- | --- | --- | --- | --- | --- |
| Treatment | 1 | 1 | 222.7 | 1.2867 | 0.2579 |
| sex | 1 | 1 | 383.5 | 0.1874 | 0.6653 |
| Treatment\*sex | 1 | 1 | 383.5 | 0.2968 | 0.5862 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |



ANOVA on 222 total *Melissodes* visits (n=20 control flowers, 20 treatment flowers):

log10(seconds) ~ Treatment + Sex + Treatment\*Sex + (flowerID)

| Source | Nparm | DF | DFDen | F Ratio | Prob > F |
| --- | --- | --- | --- | --- | --- |
| Treatment | 1 | 1 | 23.45 | 1.4384 | 0.2424 |
| sex | 1 | 1 | 199.7 | 23.9930 | <.0001\* |
| Treatment\*sex | 1 | 1 | 199.7 | 0.0029 | 0.9573 |



Soldier beetles

*Visitation*

113 total visits, roughly half of which were from *Melissodes* (58 total visits), although only 25 actually landed on flowers. Females made up 40% of visits (23 compared to 35 male visits)