Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: Herbivory\_mean\_late\_binary ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Herbivory after flowering, binary: 2020 | Family | NA | NA | 0 | 1 | 0.5 |
| Population | NA | NA | 0 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Herbivory after flowering, binary: 2020 | Block | 8.047 | **0.045\*** |
| Subtransect | 0.075 | 0.785 |
| Distance to City Center | 0.263 | 0.608 |
| Subtransect x Distance to City Center | 0.009 | 0.924 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: Herbivory\_mean\_late\_binary ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Herbivory after flowering, binary: 2020 | Family | NA | NA | 0 | 1 | 0.5 |
| Population | NA | NA | 0 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Herbivory after flowering, binary: 2020 | Block | 8.107 | **0.044\*** |
| Subtransect | 0.001 | 0.971 |
| Urbanization Score | 0.557 | 0.456 |
| Subtransect x Urbanization Score | 0.159 | 0.69 |