Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Herbivory before flowering, binary: 2021 | Family | NA | NA | 0 | 1 | 0.5 |
| Herbivory before flowering, binary: 2021 | Population | NA | NA | 0 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Herbivory before flowering, binary: 2021 | Block | 5.592 | 0.133 |
| Subtransect | 0.456 | 0.5 |
| Distance to City Center | 1.013 | 0.314 |
| Subtransect x Distance to City Center | 1.369 | 0.242 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Herbivory before flowering, binary: 2021 | Family | NA | NA | 0 | 1 | 0.5 |
| Herbivory before flowering, binary: 2021 | Population | NA | NA | 0 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Herbivory before flowering, binary: 2021 | Block | 5.882 | 0.117 |
| Subtransect | 0.860 | 0.354 |
| Urbanization Score | 2.275 | 0.131 |
| Subtransect x Urbanization Score | 0.373 | 0.541 |