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: 2020 | Family | NA | NA | 0.538 | 1 | 0.2315 |
| Population | 0.138 | 4.038 | 0.003 | 1 | 0.477 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Herbivory before flowering, binary: 2020 | Block | 0.215 | 0.975 |
| Subtransect | 0.040 | 0.841 |
| Distance to City Center | 4.795 | **0.029\*** |
| Subtransect x Distance to City Center | 1.719 | 0.19 |

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: 2020 | Family | NA | NA | 0.747 | 1 | 0.1935 |
| Population | 0.162 | 4.703 | 0.003 | 1 | 0.4775 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Herbivory before flowering, binary: 2020 | Block | 0.197 | 0.978 |
| Subtransect | 0.215 | 0.643 |
| Urbanization Score | 3.475 | 0.062 |
| Subtransect x Urbanization Score | 1.129 | 0.288 |