Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: log(Herbivory\_mean\_early) ~ (1 | Population/Family) + Block + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2021 | Family:Population | 0.000 | 0 | 0.5 |
| Population | 0.000 | 0 | 0.5 |
| Residual | 1.757 | 100 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2021 | Block | 0.162 | 0.983 |
| Subtransect | 0.122 | 0.727 |
| Distance to City Center | 0.054 | 0.816 |
| Subtransect x Distance to City Center | 0.959 | 0.327 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: log(Herbivory\_mean\_early) ~ (1 | Population/Family) + Block + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2021 | Family:Population | 0.000 | 0 | 0.5 |
| Population | 0.000 | 0 | 0.5 |
| Residual | 1.751 | 100 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2021 | Block | 0.136 | 0.987 |
| Subtransect | 0.024 | 0.878 |
| Urbanization Score | 0.300 | 0.584 |
| Subtransect x Urbanization Score | 1.770 | 0.183 |