Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Herbivory after flowering, quantitative: 2021 | Family:Population | 0.060 | 4.41 | 0.1495 |
| Population | 0.000 | 0.00 | 0.5 |
| Residual | 1.298 | 95.59 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Herbivory after flowering, quantitative: 2021 | Block | 3.352 | 0.34 |
| Subtransect | 0.390 | 0.532 |
| Distance to City Center | 0.004 | 0.949 |
| Subtransect x Distance to City Center | 0.482 | 0.487 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Herbivory after flowering, quantitative: 2021 | Family:Population | 0.049 | 3.628 | 0.1945 |
| Population | 0.000 | 0.000 | 0.5 |
| Residual | 1.297 | 96.372 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Herbivory after flowering, quantitative: 2021 | (Intercept) | 340.638 | **<0.001\*\*\*** |
| Block | 3.434 | 0.329 |
| Subtransect | 1.155 | 0.282 |
| Urbanization Score | 1.459 | 0.227 |
| Subtransect x Urbanization Score | 3.532 | 0.06 |