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 | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2020 | Family:Population | 0.024 | 0.009 | 0.717 | 0.4385 |
| Population | 0.004 | 0.002 | 0.160 | 0.4735 |
| Residual |  | 1.304 | 99.122 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2020 | Block | 6.708 | 0.082 |
| Subtransect | 0.146 | 0.702 |
| Distance to City Center | 4.808 | **0.028\*** |
| Subtransect x Distance to City Center | 1.279 | 0.258 |

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 | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2020 | Family:Population | 0.022 | 0.009 | 0.692 | 0.4405 |
| Population | 0.104 | 0.011 | 0.837 | 0.3735 |
| Residual |  | 1.307 | 98.471 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2020 | Block | 7.152 | 0.067 |
| Subtransect | 0.527 | 0.468 |
| Urbanization Score | 0.347 | 0.556 |
| Subtransect x Urbanization Score | 2.318 | 0.128 |