Table 1: Test for variance among families and populations

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

| Variable | Group | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2021 | Family:Population | 0.001 | 0.001 | 0.085 | 0.491 |
| Population | 0.111 | 0.008 | 0.625 | 0.3695 |
| Residual |  | 1.330 | 99.290 |  |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

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

| Variable | Group | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2021 | Family:Population | 0.013 | 0.006 | 0.430 | 0.4545 |
| Population | 0.027 | 0.004 | 0.317 | 0.4355 |
| Residual |  | 1.328 | 99.253 |  |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2021 | Block | 3.330 | 0.344 |
| Distance to City Center | 1.793 | 0.181 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

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

| Variable | Group | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2021 | Family:Population | 0.001 | 0.001 | 0.084 | 0.491 |
| Population | 0.179 | 0.011 | 0.812 | 0.3365 |
| Residual |  | 1.330 | 99.104 |  |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Herbivory before flowering, quantitative: 2021 | Block | 3.201 | 0.362 |
| Urbanization Score | 0.039 | 0.843 |