Table 1: Test for variance among families and populations

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

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Herbivory after flowering, quantitative: 2021 | Family:Population | 0.413 | 0.029 | 2.163 | 0.2605 |
| Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Residual |  | 1.323 | 97.837 |  |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

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

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Herbivory after flowering, quantitative: 2021 | Family:Population | 0.495 | 0.032 | 2.37 | 0.241 |
| Population | 0.000 | 0.000 | 0.00 | 0.5 |
| Residual |  | 1.320 | 97.63 |  |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Herbivory after flowering, quantitative: 2021 | Block | 3.452 | 0.327 |
| Distance to City Center | 1.049 | 0.306 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

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

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Herbivory after flowering, quantitative: 2021 | Family:Population | 0.482 | 0.032 | 2.348 | 0.244 |
| Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Residual |  | 1.322 | 97.652 |  |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Herbivory after flowering, quantitative: 2021 | Block | 3.467 | 0.325 |
| Urbanization Score | 0.020 | 0.887 |