Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: Ramets\_late ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Ramets after flowering: 2021 | Family | 0.006 | 1.543 | 22.59 | 1 | **<0.001** |
| Population | 0.076 | 15.202 | 0.00 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2021 | (Intercept) | 5.406 | **0.02\*** |
| Block | 69.953 | **<0.001\*\*\*** |
| Subtransect | 3.250 | 0.071 |
| Distance to City Center | 6.038 | **0.014\*** |
| Subtransect x Distance to City Center | 2.755 | 0.097 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: Ramets\_late ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Ramets after flowering: 2021 | Family | 0.009 | 2.123 | 22.903 | 1 | **<0.001** |
| Population | 0.078 | 15.620 | 0.000 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2021 | Block | 72.547 | **<0.001\*\*\*** |
| Subtransect | 1.244 | 0.265 |
| Urbanization Score | 1.519 | 0.218 |
| Subtransect x Urbanization Score | 1.618 | 0.203 |