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 | p |
| --- | --- | --- | --- | --- |
| Ramets after flowering: 2021 | Family | 0.006 | 1.539 | **<0.001** |
| Population | 0.075 | 15.336 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2021 | Block | 69.735 | **<0.001\*\*\*** |
| Subtransect | 0.499 | 0.48 |
| Distance to City Center | 3.474 | 0.062 |
| Subtransect x Distance to City Center | 2.701 | 0.1 |

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 | p |
| --- | --- | --- | --- | --- |
| Ramets after flowering: 2021 | Family | 0.009 | 2.119 | **<0.001** |
| Population | 0.077 | 15.762 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2021 | Block | 72.413 | **<0.001\*\*\*** |
| Subtransect | 1.240 | 0.265 |
| Urbanization Score | 1.508 | 0.219 |
| Subtransect x Urbanization Score | 1.583 | 0.208 |