Table 1: Test for variance among families and populations

Model: Ramets\_late ~ Block + (1 | Population) + (1 | Population:Fam\_uniq)

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Ramets after flowering: 2021 | Family | 0.020 | 4.745 | 27.179 | 1 | **<0.001** |
| Population | 0.077 | 15.880 | 0.156 | 1 | 0.3465 |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Ramets after flowering: 2021 | Family | 0.018 | 4.307 | 27.373 | 1 | **<0.001** |
| Population | 0.076 | 15.626 | 0.042 | 1 | 0.4185 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2021 | Block | 108.126 | **<0.001\*\*\*** |
| Distance to City Center | 1.839 | 0.175 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Ramets after flowering: 2021 | Family | 0.020 | 4.724 | 27.201 | 1 | **<0.001** |
| Population | 0.077 | 15.871 | 0.148 | 1 | 0.3505 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2021 | Block | 107.41 | **<0.001\*\*\*** |
| Urbanization Score | 0.05 | 0.823 |