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: 2019 | Family | NA | NA | 5.162 | 1 | **0.0115** |
| Population | 0.032 | 6.394 | 0.000 | 1 | 0.5 |

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: 2019 | Family | NA | NA | 5.136 | 1 | **0.0115** |
| Population | 0.032 | 6.381 | 0.000 | 1 | 0.5 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2019 | Block | 12.185 | **0.007\*\*** |
| Distance to City Center | 0.066 | 0.797 |

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: 2019 | Family | NA | NA | 5.163 | 1 | **0.0115** |
| Population | 0.032 | 6.394 | 0.000 | 1 | 0.4995 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2019 | Block | 12.159 | **0.007\*\*** |
| Urbanization Score | 0.001 | 0.975 |