Table 1: Test for variance among families and populations

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

PVE for population: 15.748. PVE for family: 4.733

| Variable | Group | p |
| --- | --- | --- |
| Ramets after flowering: 2021 | Family | **<0.001** |
| Population | 0.364 |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

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

PVE for population: 15.499. PVE for family: 4.298

| Variable | Group | p |
| --- | --- | --- |
| Ramets after flowering: 2021 | Family | **<0.001** |
| Population | 0.437 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2021 | Block | 108.832 | **<0.001\*\*\*** |
| Distance to City Center | 1.886 | 0.17 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

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

PVE for population: 15.738. PVE for family: 4.713

| Variable | Group | p |
| --- | --- | --- |
| Ramets after flowering: 2021 | Family | **<0.001** |
| Population | 0.368 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2021 | Block | 108.195 | **<0.001\*\*\*** |
| Urbanization Score | 0.052 | 0.819 |