Table 1: Test for variance among families and populations

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

PVE for population: 6.394. PVE for family: NA

| Variable | Group | p |
| --- | --- | --- |
| Ramets after flowering: 2019 | Family | **0.0115** |
| Population | 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:Family) + City\_dist

PVE for population: 6.381. PVE for family: NA

| Variable | Group | p |
| --- | --- | --- |
| Ramets after flowering: 2019 | Family | **0.0115** |
| Population | 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:Family) + Urb\_score

PVE for population: 6.394. PVE for family: NA

| Variable | Group | p |
| --- | --- | --- |
| Ramets after flowering: 2019 | Family | **0.0115** |
| Population | 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 |