| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2021 | Block | 108.195 | **<0.001\*\*\*** |
| Urbanization Score | 0.052 | 0.819 |

Table 5: Quantify variance explained by urbanization

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Ramets after flowering: 2021 | Family | 0.020 | 4.713 | 27.672 | 1 | **<0.001** |
| Ramets after flowering: 2021 | Population | 0.078 | 15.738 | 0.114 | 1 | 0.368 |

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

Urbanization = Urbanization Score

Table 4: Assess how much variance is explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Ramets after flowering: 2021 | Block | 108.832 | **<0.001\*\*\*** |
| Distance to City Center | 1.886 | 0.17 |

Table 3: Quantify variance explained by urbanization

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Ramets after flowering: 2021 | Family | 0.018 | 4.297 | 27.856 | 1 | **<0.001** |
| Ramets after flowering: 2021 | Population | 0.077 | 15.499 | 0.025 | 1 | 0.437 |

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

Urbanization = Distance to the City Center

Table 2: Assess how much variance is explained by urbanization

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Ramets after flowering: 2021 | Family | 0.020 | 4.733 | 27.650 | 1 | **<0.001** |
| Ramets after flowering: 2021 | Population | 0.078 | 15.748 | 0.121 | 1 | 0.364 |

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

Table 1: Test for variance among families and populations