Table 1: Test for variance among families and populations

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering success: 2021 | Family | 0.262 | 7.388 | 3.821 | 1 | **0.0255** |
| Population | 0.799 | 19.544 | 0.753 | 1 | 0.1925 |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering success: 2021 | Family | 0.254 | 7.169 | 4.054 | 1 | **0.022** |
| Population | 0.814 | 19.830 | 0.578 | 1 | 0.2235 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2021 | Block | 18.987 | **<0.001\*\*\*** |
| Distance to City Center | 0.885 | 0.347 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering success: 2021 | Family | 0.258 | 7.269 | 3.958 | 1 | **0.0235** |
| Population | 0.810 | 19.758 | 0.639 | 1 | 0.212 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2021 | Block | 18.961 | **<0.001\*\*\*** |
| Urbanization Score | 0.550 | 0.458 |