Table 1: Test for variance among families and populations

Model: Flowered ~ Block + (1 | Population) + (1 | Population:Family)

PVE for population: 7.976. PVE for family: 7.192

| Variable | Group | p |
| --- | --- | --- |
| Flowering success: 2022 | Family | 0.3565 |
| Population | **0.011** |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

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

PVE for population: 7.97. PVE for family: 7.191

| Variable | Group | p |
| --- | --- | --- |
| Flowering success: 2022 | Family | 0.3565 |
| Population | **0.0115** |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2022 | Block | 29.97 | **<0.001\*\*\*** |
| Distance to City Center | 0.00 | 0.992 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

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

PVE for population: 7.942. PVE for family: 7.143

| Variable | Group | p |
| --- | --- | --- |
| Flowering success: 2022 | Family | 0.3545 |
| Population | **0.012** |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2022 | Block | 29.988 | **<0.001\*\*\*** |
| Urbanization Score | 0.019 | 0.89 |