Table 1: Test for variance among families and populations

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

PVE for population: 13.99. PVE for family: 7

| Variable | Group | p |
| --- | --- | --- |
| Flowering success: 2021 | Family | 0.0705 |
| Population | 0.1345 |

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: 14.256. PVE for family: 6.784

| Variable | Group | p |
| --- | --- | --- |
| Flowering success: 2021 | Family | 0.0635 |
| Population | 0.156 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Flowering success: 2021 | Block | 18.477 | **<0.001\*\*\*** |
| Distance to City Center | 0.768 | 0.381 |

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: 14.165. PVE for family: 6.881

| Variable | Group | p |
| --- | --- | --- |
| Flowering success: 2021 | Family | 0.0665 |
| Population | 0.1475 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Flowering success: 2021 | Block | 18.454 | **<0.001\*\*\*** |
| Urbanization Score | 0.473 | 0.492 |