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: 2020 | Family | 0.695 | 17.439 | 0.000 | 1 | 0.495 |
| Population | 0.256 | 7.226 | 2.835 | 1 | **0.046** |

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: 2020 | Family | 0.638 | 16.240 | 0.000 | 1 | 0.4925 |
| Population | 0.204 | 5.836 | 2.519 | 1 | 0.056 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2020 | Block | 12.337 | **0.006\*\*** |
| Distance to City Center | 0.692 | 0.406 |

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: 2020 | Family | 0.688 | 17.298 | 0.000 | 1 | 0.4945 |
| Population | 0.249 | 7.032 | 2.794 | 1 | **0.0475** |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2020 | Block | 12.267 | **0.007\*\*** |
| Urbanization Score | 0.237 | 0.626 |