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 | 0.969 | 22.754 | 0.00 | 1 | 0.4995 |
| Population | 3.909 | 54.302 | 0.19 | 1 | 0.3315 |

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 | 0.895 | 21.378 | 0.000 | 1 | 0.499 |
| Population | 3.534 | 51.789 | 0.248 | 1 | 0.309 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2020 | Block | 12.454 | **0.006\*\*** |
| Distance to City Center | 0.655 | 0.418 |

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 | 0.957 | 22.537 | 0.000 | 1 | 0.5 |
| Population | 3.799 | 53.592 | 0.228 | 1 | 0.3165 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2020 | Block | 12.400 | **0.006\*\*** |
| Urbanization Score | 0.239 | 0.625 |