Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering success: 2022 | Family | 0.152 | 4.409 | 2.166 | 1 | 0.0705 |
| Population | 0.397 | 10.772 | 0.192 | 1 | 0.3305 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2022 | Block | 19.899 | **<0.001\*\*\*** |
| Subtransect | 0.581 | 0.446 |
| Distance to City Center | 0.077 | 0.782 |
| Subtransect x Distance to City Center | 0.025 | 0.875 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering success: 2022 | Family | 0.120 | 3.511 | 2.278 | 1 | 0.0655 |
| Population | 0.373 | 10.175 | 0.060 | 1 | 0.403 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2022 | Block | 20.167 | **<0.001\*\*\*** |
| Subtransect | 0.416 | 0.519 |
| Urbanization Score | 0.348 | 0.555 |
| Subtransect x Urbanization Score | 1.971 | 0.16 |