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: 2021 | Family | 0.238 | 6.737 | 6.952 | 1 | **0.004** |
| Population | 1.161 | 26.085 | -0.016 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2021 | Block | 13.613 | **0.003\*\*** |
| Subtransect | 3.193 | 0.074 |
| Distance to City Center | 1.569 | 0.21 |
| Subtransect x Distance to City Center | 0.338 | 0.561 |

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: 2021 | Family | 0.302 | 8.404 | 6.539 | 1 | **0.0055** |
| Population | 1.216 | 26.993 | 0.108 | 1 | 0.3715 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2021 | Block | 13.354 | **0.004\*\*** |
| Subtransect | 3.108 | 0.078 |
| Urbanization Score | 0.301 | 0.584 |
| Subtransect x Urbanization Score | 0.021 | 0.886 |