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 | 0.221 | 6.290 | 4.727 | 1 | **0.015** |
| Population | 0.814 | 19.838 | 0.064 | 1 | 0.4005 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2021 | Block | 12.995 | **0.005\*\*** |
| Subtransect | 2.911 | 0.088 |
| Distance to City Center | 1.399 | 0.237 |
| Subtransect x Distance to City Center | 0.323 | 0.57 |

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 | 0.284 | 7.946 | 4.395 | 1 | **0.018** |
| Population | 0.854 | 20.612 | 0.375 | 1 | 0.27 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2021 | Block | 12.701 | **0.005\*\*** |
| Subtransect | 2.698 | 0.101 |
| Urbanization Score | 0.243 | 0.622 |
| Subtransect x Urbanization Score | 0.016 | 0.9 |