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 | 0.156 | 4.530 | 2.696 | 1 | 0.0505 |
| Population | 0.465 | 12.384 | 0.115 | 1 | 0.3675 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2022 | Block | 20.148 | **<0.001\*\*\*** |
| Subtransect | 0.628 | 0.428 |
| Distance to City Center | 0.096 | 0.756 |
| Subtransect x Distance to City Center | 0.028 | 0.866 |

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 | 0.124 | 3.626 | 2.814 | 1 | **0.0465** |
| Population | 0.439 | 11.763 | 0.025 | 1 | 0.437 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2022 | Block | 20.346 | **<0.001\*\*\*** |
| Subtransect | 0.435 | 0.509 |
| Urbanization Score | 0.390 | 0.532 |
| Subtransect x Urbanization Score | 2.090 | 0.148 |