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: 2020 | Family | 0.418 | 11.278 | 0.002 | 1 | 0.4835 |
| Population | NA | NA | 1.141 | 1 | 0.143 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2020 | Block | 9.923 | **0.019\*** |
| Subtransect | 0.029 | 0.865 |
| Distance to City Center | 0.877 | 0.349 |
| Subtransect x Distance to City Center | 0.693 | 0.405 |

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: 2020 | Family | 0.427 | 11.477 | 0.002 | 1 | 0.4835 |
| Population | NA | NA | 1.149 | 1 | 0.142 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering success: 2020 | Block | 9.733 | **0.021\*** |
| Subtransect | 0.003 | 0.958 |
| Urbanization Score | 1.370 | 0.242 |
| Subtransect x Urbanization Score | 0.000 | 0.986 |