Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering start: 2021 | Family | NA | NA | 0 | 1 | 0.5 |
| Population | NA | NA | 0 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering start: 2021 | Block | 4.756 | 0.191 |
| Subtransect | 0.589 | 0.443 |
| Distance to City Center | 4.199 | **0.04\*** |
| Subtransect x Distance to City Center | 0.377 | 0.539 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering start: 2021 | Family | NA | NA | 0 | 1 | 0.5 |
| Population | NA | NA | 0 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering start: 2021 | Block | 4.301 | 0.231 |
| Subtransect | 0.596 | 0.44 |
| Urbanization Score | 2.872 | 0.09 |
| Subtransect x Urbanization Score | 1.068 | 0.301 |