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 | p |
| --- | --- | --- | --- | --- |
| Flowering start: 2022 | Family | NA | NA | 0.5 |
| Population | NA | NA | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering start: 2022 | Block | 3.121 | 0.373 |
| Subtransect | 0.003 | 0.96 |
| Distance to City Center | 0.444 | 0.505 |
| Subtransect x Distance to City Center | 0.168 | 0.682 |

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 | p |
| --- | --- | --- | --- | --- |
| Flowering start: 2022 | Family | NA | NA | 0.5 |
| Population | NA | NA | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering start: 2022 | Block | 2.761 | 0.43 |
| Subtransect | 0.000 | 0.991 |
| Urbanization Score | 0.122 | 0.727 |
| Subtransect x Urbanization Score | 0.773 | 0.379 |