| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Flowering start: 2022 | Block | 23.008 | **<0.001\*\*\*** |
| Subtransect | 0.101 | 0.75 |
| Urbanization Score | 0.004 | 0.948 |
| Subtransect x Urbanization Score | 1.820 | 0.177 |

Table 4: Quantify variance explained by transect

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering start: 2022 | Family | 0.040 | 88.302 | 53.835 | 1 | **<0.001** |
| Flowering start: 2022 | Population | 0.076 | 93.516 | 0.000 | 1 | 0.5 |

Model: Julian\_oldest\_inflor - 170 ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

Urbanization = Urbanization Score

Table 3: Assess how much variance is explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Flowering start: 2022 | Block | 24.513 | **<0.001\*\*\*** |
| Subtransect | 0.086 | 0.77 |
| Distance to City Center | 0.680 | 0.409 |
| Subtransect x Distance to City Center | 0.717 | 0.397 |

Table 2: Quantify variance explained by transect

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering start: 2022 | Family | 0.039 | 88.206 | 52.522 | 1 | **<0.001** |
| Flowering start: 2022 | Population | 0.076 | 93.556 | 0.000 | 1 | 0.5 |

Model: Julian\_oldest\_inflor - 170 ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

Urbanization = Distance to the City Center

Table 1: Assess how much variance is explained by transect