| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Flowering start: 2021 | (Intercept) | 96.236 | **<0.001\*\*\*** |
| Block | 14.161 | **0.003\*\*** |
| Subtransect | 1.826 | 0.177 |
| Urbanization Score | 1.388 | 0.239 |
| Subtransect x Urbanization Score | 3.007 | 0.083 |

Table 4: Quantify variance explained by transect

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering start: 2021 | Family | 0.067 | 92.925 | 32.361 | 1 | **<0.001** |
| Flowering start: 2021 | Population | 0.106 | 95.431 | 0.272 | 1 | 0.301 |

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: 2021 | Block | 14.612 | **0.002\*\*** |
| Subtransect | 0.342 | 0.559 |
| Distance to City Center | 12.000 | **<0.001\*\*\*** |
| Subtransect x Distance to City Center | 0.612 | 0.434 |

Table 2: Quantify variance explained by transect

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering start: 2021 | Family | 0.050 | 90.796 | 33.659 | 1 | **<0.001** |
| Flowering start: 2021 | Population | 0.096 | 94.970 | 0.215 | 1 | 0.3215 |

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