Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: as.numeric(flowering\_time) ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering duration: 2021 | Family | 0.046 | 100 | 0.000 | 1 | 0.4925 |
| Population | 0.034 | 100 | 0.251 | 1 | 0.308 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2021 | Block | 2.498 | 0.476 |
| Subtransect | 1.734 | 0.188 |
| Distance to City Center | 9.516 | **0.002\*\*** |
| Subtransect x Distance to City Center | 0.885 | 0.347 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: as.numeric(flowering\_time) ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering duration: 2021 | Family | 0.134 | 100 | 0.000 | 1 | 0.5 |
| Population | 0.033 | 100 | 1.961 | 1 | 0.0805 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2021 | Block | 2.038 | 0.565 |
| Subtransect | 0.363 | 0.547 |
| Urbanization Score | 0.168 | 0.682 |
| Subtransect x Urbanization Score | 0.561 | 0.454 |