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: 2022 | 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 duration: 2022 | Block | 4.211 | 0.24 |
| Subtransect | 2.045 | 0.153 |
| Distance to City Center | 0.414 | 0.52 |
| Subtransect x Distance to City Center | 0.583 | 0.445 |

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: 2022 | 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 duration: 2022 | (Intercept) | 115.472 | **<0.001\*\*\*** |
| Block | 4.878 | 0.181 |
| Subtransect | 2.001 | 0.157 |
| Urbanization Score | 5.008 | **0.025\*** |
| Subtransect x Urbanization Score | 7.226 | **0.007\*\*** |