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 | 0.4915 |
| Population | 0.035 | 100 | 0.253 | 1 | 0.3075 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2021 | Block | 2.338 | 0.505 |
| Subtransect | 1.590 | 0.207 |
| Distance to City Center | 8.382 | **0.004\*\*** |
| Subtransect x Distance to City Center | 0.861 | 0.354 |

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 | 0.135 | 100 | 0.000 | 1 | 0.5 |
| Population | 0.034 | 100 | 1.978 | 1 | 0.08 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2021 | Block | 2.027 | 0.567 |
| Subtransect | 0.365 | 0.546 |
| Urbanization Score | 0.127 | 0.722 |
| Subtransect x Urbanization Score | 0.634 | 0.426 |