Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: mean\_flower\_count ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mean flower count: 2022 | Family | 0.011 | 3.848 | 0.000 | 1 | 0.5 |
| Population | NA | NA | 0.359 | 1 | 0.2745 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mean flower count: 2022 | Block | 10.053 | **0.018\*** |
| Subtransect | 4.281 | **0.039\*** |
| Distance to City Center | 0.539 | 0.463 |
| Subtransect x Distance to City Center | 0.898 | 0.343 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: mean\_flower\_count ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mean flower count: 2022 | Family | 0 | 0 | 0 | 1 | 0.5 |
| Population | 0 | 0 | 0 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mean flower count: 2022 | Block | 10.176 | **0.017\*** |
| Subtransect | 6.047 | **0.014\*** |
| Urbanization Score | 2.414 | 0.12 |
| Subtransect x Urbanization Score | 1.916 | 0.166 |