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: 2021 | Family | NA | NA | 2.05 | 1 | 0.076 |
| Population | 0.067 | 22.504 | 0.00 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mean flower count: 2021 | Block | 8.763 | **0.033\*** |
| Subtransect | 0.000 | 0.994 |
| Distance to City Center | 1.116 | 0.291 |
| Subtransect x Distance to City Center | 0.018 | 0.895 |

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: 2021 | Family | 0.000 | 0.000 | 1.955 | 1 | 0.081 |
| Population | 0.066 | 22.317 | 0.000 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mean flower count: 2021 | Block | 8.760 | **0.033\*** |
| Subtransect | 0.021 | 0.885 |
| Urbanization Score | 0.011 | 0.918 |
| Subtransect x Urbanization Score | 0.742 | 0.389 |