Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Flower count: 2020 | Family | 0.830 | 97.231 | **<0.001** |
| Population | 1.228 | 97.558 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flower count: 2020 | (Intercept) | 0.040 | 0.841 |
| Block | 56.761 | **<0.001\*\*\*** |
| Subtransect | 3.118 | 0.077 |
| Distance to City Center | 3.689 | 0.055 |
| Subtransect x Distance to City Center | 3.091 | 0.079 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Flower count: 2020 | Family | 1.246 | 98.139 | **<0.001** |
| Population | 1.310 | 97.707 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flower count: 2020 | Block | 52.909 | **<0.001\*\*\*** |
| Subtransect | 0.161 | 0.688 |
| Urbanization Score | 0.054 | 0.815 |
| Subtransect x Urbanization Score | 2.418 | 0.12 |