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 | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flower count: 2021 | Family | 0.003 | 0.693 | 0.000 | 1 | 0.4995 |
| Population | NA | NA | 0.003 | 1 | 0.477 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flower count: 2021 | Block | 6.125 | 0.106 |
| Subtransect | 0.137 | 0.712 |
| Distance to City Center | 6.094 | **0.014\*** |
| Subtransect x Distance to City Center | 0.000 | 0.985 |

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 | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flower count: 2021 | Family | 0.047 | 9.75 | 0.000 | 1 | 0.4995 |
| Population | NA | NA | 0.489 | 1 | 0.242 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flower count: 2021 | Block | 7.741 | 0.052 |
| Subtransect | 0.011 | 0.915 |
| Urbanization Score | 0.356 | 0.551 |
| Subtransect x Urbanization Score | 0.155 | 0.694 |