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: 2022 | Family | NA | NA | 0.4995 |
| Population | NA | NA | 0.4995 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flower count: 2022 | Block | 9.011 | **0.029\*** |
| Subtransect | 2.628 | 0.105 |
| Distance to City Center | 0.002 | 0.962 |
| Subtransect x Distance to City Center | 0.510 | 0.475 |

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: 2022 | Family | NA | NA | 0.5 |
| Population | NA | NA | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flower count: 2022 | Block | 9.335 | **0.025\*** |
| Subtransect | 2.556 | 0.11 |
| Urbanization Score | 0.068 | 0.794 |
| Subtransect x Urbanization Score | 0.536 | 0.464 |