Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Peduncles: 2022 | Family | 0.119 | 35.351 | 9.892 | 1 | **0.001** |
| Population | 0.183 | 45.126 | 1.325 | 1 | 0.125 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Peduncles: 2022 | Block | 8.636 | **0.035\*** |
| Subtransect | 0.306 | 0.58 |
| Distance to City Center | 0.032 | 0.858 |
| Subtransect x Distance to City Center | 1.044 | 0.307 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Peduncles: 2022 | Family | 0.098 | 30.973 | 9.238 | 1 | **0.001** |
| Population | 0.160 | 41.717 | 0.930 | 1 | 0.1675 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Peduncles: 2022 | (Intercept) | 58.579 | **<0.001\*\*\*** |
| Block | 7.268 | 0.064 |
| Subtransect | 1.431 | 0.232 |
| Urbanization Score | 3.273 | 0.07 |
| Subtransect x Urbanization Score | 3.185 | 0.074 |