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: 2021 | Family | 0.160 | 28.422 | 0.072 | 1 | 0.394 |
| Population | 0.129 | 23.984 | 1.549 | 1 | 0.1065 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Peduncles: 2021 | Block | 3.785 | 0.286 |
| Subtransect | 0.037 | 0.848 |
| Distance to City Center | 4.687 | **0.03\*** |
| Subtransect x Distance to City Center | 0.123 | 0.726 |

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: 2021 | Family | 0.13 | 24.360 | 0.000 | 1 | 0.499 |
| Population | 0.07 | 14.727 | 2.367 | 1 | 0.062 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Peduncles: 2021 | (Intercept) | 11.191 | **<0.001\*\*\*** |
| Block | 3.216 | 0.36 |
| Subtransect | 3.384 | 0.066 |
| Urbanization Score | 2.614 | 0.106 |
| Subtransect x Urbanization Score | 4.482 | **0.034\*** |