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 | 0.162 | 28.415 | 0.084 | 1 | 0.386 |
| Population | 0.132 | 24.137 | 1.537 | 1 | 0.1075 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Peduncles: 2021 | Block | 3.771 | 0.287 |
| Subtransect | 0.040 | 0.841 |
| Distance to City Center | 4.595 | **0.032\*** |
| Subtransect x Distance to City Center | 0.129 | 0.719 |

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 | 0.132 | 24.413 | 0.000 | 1 | 0.5 |
| Population | 0.073 | 15.041 | 2.389 | 1 | 0.061 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Peduncles: 2021 | (Intercept) | 12.015 | **<0.001\*\*\*** |
| Block | 3.278 | 0.351 |
| Subtransect | 3.716 | 0.054 |
| Urbanization Score | 2.949 | 0.086 |
| Subtransect x Urbanization Score | 4.977 | **0.026\*** |