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 | p |
| --- | --- | --- | --- | --- |
| Peduncles: 2020 | Family | NA | NA | 0.5 |
| Population | NA | NA | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Peduncles: 2020 | Block | 0.802 | 0.849 |
| Subtransect | 1.615 | 0.204 |
| Distance to City Center | 0.585 | 0.444 |
| Subtransect x Distance to City Center | 0.569 | 0.451 |

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 | p |
| --- | --- | --- | --- | --- |
| Peduncles: 2020 | Family | NA | NA | 0.5 |
| Population | NA | NA | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Peduncles: 2020 | Block | 0.812 | 0.846 |
| Subtransect | 1.856 | 0.173 |
| Urbanization Score | 1.584 | 0.208 |
| Subtransect x Urbanization Score | 0.012 | 0.912 |