Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Labidomera clivicollis: 2021 | Family | NA | NA | 0 | 1 | 0.5 |
| Labidomera clivicollis: 2021 | Population | NA | NA | 0 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Labidomera clivicollis: 2021 | Block | 1.406 | 0.704 |
| Subtransect | 0.054 | 0.816 |
| Distance to City Center | 0.482 | 0.487 |
| Subtransect x Distance to City Center | 0.002 | 0.961 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Labidomera clivicollis: 2021 | Family | NA | NA | 0 | 1 | 0.5 |
| Labidomera clivicollis: 2021 | Population | NA | NA | 0 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Labidomera clivicollis: 2021 | Block | 1.302 | 0.729 |
| Subtransect | 0.034 | 0.854 |
| Urbanization Score | 0.701 | 0.402 |
| Subtransect x Urbanization Score | 1.461 | 0.227 |