Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: sqrt(mean\_poll) ~ (1 | Population/Family) + Block + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Pollinaria removed: 2021 | Family:Population | 0.745 | 0.068 | 33.728 | 0.194 |
| Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Residual |  | 0.134 | 66.272 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pollinaria removed: 2021 | Block | 2.170 | 0.538 |
| Subtransect | 0.219 | 0.64 |
| Distance to City Center | 3.679 | 0.055 |
| Subtransect x Distance to City Center | 0.016 | 0.899 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: sqrt(mean\_poll) ~ (1 | Population/Family) + Block + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Pollinaria removed: 2021 | Family:Population | 0.201 | 0.061 | 29.469 | 0.327 |
| Population | 0.000 | 0.000 | 0.221 | 0.495 |
| Residual |  | 0.146 | 70.310 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pollinaria removed: 2021 | Block | 1.314 | 0.726 |
| Subtransect | 0.310 | 0.578 |
| Urbanization Score | 1.634 | 0.201 |
| Subtransect x Urbanization Score | 0.383 | 0.536 |