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: 2022 | Family:Population | 0.628 | 0.015 | 14.544 | 0.214 |
| Population | 0.145 | 0.003 | 3.139 | 0.3515 |
| Residual |  | 0.087 | 82.317 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pollinaria removed: 2022 | Block | 12.850 | **0.005\*\*** |
| Subtransect | 0.012 | 0.912 |
| Distance to City Center | 0.378 | 0.538 |
| Subtransect x Distance to City Center | 0.023 | 0.88 |

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: 2022 | Family:Population | 0.345 | 0.012 | 11.331 | 0.2785 |
| Population | 0.035 | 0.002 | 1.477 | 0.426 |
| Residual |  | 0.090 | 87.192 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pollinaria removed: 2022 | Block | 13.869 | **0.003\*\*** |
| Subtransect | 0.188 | 0.664 |
| Urbanization Score | 1.423 | 0.233 |
| Subtransect x Urbanization Score | 1.162 | 0.281 |