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: 2020 | Family:Population | 0.177 | 0.190 | 70.789 | 0.337 |
| Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Residual |  | 0.079 | 29.211 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pollinaria removed: 2020 | Block | 4.607 | 0.203 |
| Subtransect | 1.923 | 0.165 |
| Distance to City Center | 0.444 | 0.505 |
| Subtransect x Distance to City Center | 0.834 | 0.361 |

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: 2020 | Family:Population | 0.469 | 0.223 | 79.575 | 0.2465 |
| Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Residual |  | 0.057 | 20.425 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pollinaria removed: 2020 | Block | 6.365 | 0.095 |
| Subtransect | 1.506 | 0.22 |
| Urbanization Score | 0.443 | 0.506 |
| Subtransect x Urbanization Score | 0.882 | 0.348 |