Table 1: Test for variance among families and populations

Model: mean\_poll^(1/2) ~ Block + (1 | Population/Family)

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Pollinaria removed: 2021 | Family:Population | 1.866 | 0.130 | 52.421 | 0.086 |
| Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Residual |  | 0.118 | 47.579 |  |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

Model: mean\_poll^(1/2) ~ Block + (1 | Population/Family) + City\_dist

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Pollinaria removed: 2021 | Family:Population | 1.98 | 0.135 | 53.504 | 0.0795 |
| Population | 0.00 | 0.000 | 0.000 | 0.5 |
| Residual |  | 0.117 | 46.496 |  |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pollinaria removed: 2021 | Block | 4.781 | 0.189 |
| Distance to City Center | 0.040 | 0.842 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

Model: mean\_poll^(1/2) ~ Block + (1 | Population/Family) + Urb\_score

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Pollinaria removed: 2021 | Family:Population | 2.047 | 0.136 | 53.778 | 0.076 |
| Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Residual |  | 0.117 | 46.222 |  |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pollinaria removed: 2021 | Block | 4.845 | 0.183 |
| Urbanization Score | 0.163 | 0.686 |