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: 2020 | Family:Population | 0 | 0.000 | 0 | 0.5 |
| Population | 0 | 0.000 | 0 | 0.5 |
| Residual |  | 0.217 | 100 |  |

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: 2020 | Family:Population | 0 | 0.000 | 0 | 0.5 |
| Population | 0 | 0.000 | 0 | 0.5 |
| Residual |  | 0.227 | 100 |  |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pollinaria removed: 2020 | Block | 3.047 | 0.384 |
| Distance to City Center | 0.143 | 0.705 |

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: 2020 | Family:Population | 0 | 0.000 | 0 | 0.5 |
| Population | 0 | 0.000 | 0 | 0.5 |
| Residual |  | 0.226 | 100 |  |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pollinaria removed: 2020 | Block | 3.910 | 0.271 |
| Urbanization Score | 0.171 | 0.679 |