Table 1: Test for variance among families and populations

Model: Peduncles ~ Block + (1 | Population) + (1 | Population:Fam\_uniq)

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Inflorescences: 2021 | Family | 0.307 | 45.970 | 0.133 | 1 | 0.358 |
| Population | 0.241 | 39.354 | 6.745 | 1 | **0.0045** |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

Model: Peduncles ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + City\_dist

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Inflorescences: 2021 | Family | 0.286 | 44.262 | 0.198 | 1 | 0.328 |
| Population | 0.227 | 37.879 | 5.226 | 1 | **0.011** |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2021 | Block | 1.681 | 0.641 |
| Distance to City Center | 1.801 | 0.18 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

Model: Peduncles ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Urb\_score

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Inflorescences: 2021 | Family | 0.300 | 45.418 | 0.152 | 1 | 0.3485 |
| Population | 0.234 | 38.593 | 5.954 | 1 | **0.0075** |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2021 | Block | 2.068 | 0.558 |
| Urbanization Score | 0.531 | 0.466 |