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 | 0.312 | 47.331 | 0.174 | 1 | 0.338 |
| Population | 0.243 | 40.642 | 6.982 | 1 | **0.004** |

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 | 0.291 | 45.630 | 0.245 | 1 | 0.3105 |
| Population | 0.228 | 39.132 | 5.436 | 1 | **0.01** |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2021 | Block | 1.796 | 0.616 |
| Distance to City Center | 1.728 | 0.189 |

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 | 0.305 | 46.786 | 0.194 | 1 | 0.33 |
| Population | 0.235 | 39.866 | 6.179 | 1 | **0.0065** |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2021 | Block | 2.170 | 0.538 |
| Urbanization Score | 0.504 | 0.478 |