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: 2020 | Family | 0.023 | 7.007 | 0.959 | 1 | 0.1635 |
| Population | 0.092 | 22.732 | 0.000 | 1 | 0.4995 |

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: 2020 | Family | 0.019 | 5.766 | 0.688 | 1 | 0.2035 |
| Population | 0.078 | 19.841 | 0.000 | 1 | 0.5 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2020 | Block | 4,659.784 | **<0.001\*\*\*** |
| Distance to City Center | 5.511 | **0.019\*** |

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: 2020 | Family | 0.036 | 10.460 | 0.829 | 1 | 0.1815 |
| Population | 0.092 | 22.608 | 0.000 | 1 | 0.5 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2020 | Block | 2.332 | 0.507 |
| Urbanization Score | 0.146 | 0.702 |