Table 1: Test for variance among families and populations

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

PVE for population: 40.642. PVE for family: 47.331

| Variable | Group | p |
| --- | --- | --- |
| Inflorescences: 2021 | Family | 0.338 |
| Population | **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

PVE for population: 39.132. PVE for family: 45.63

| Variable | Group | p |
| --- | --- | --- |
| Inflorescences: 2021 | Family | 0.3105 |
| Population | **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

PVE for population: 39.866. PVE for family: 46.786

| Variable | Group | p |
| --- | --- | --- |
| Inflorescences: 2021 | Family | 0.33 |
| Population | **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 |