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: 2022 | Family | 0.046 | 11.415 | 0.000 | 1 | 0.4965 |
| Population | 0.035 | 8.917 | 3.285 | 1 | **0.035** |

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: 2022 | Family | 0.046 | 11.466 | 0.000 | 1 | 0.5 |
| Population | 0.035 | 8.935 | 3.283 | 1 | **0.035** |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2022 | Block | 1.911 | 0.591 |
| Distance to City Center | 0.015 | 0.902 |

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: 2022 | Family | 0.045 | 11.244 | 0.00 | 1 | 0.5 |
| Population | 0.035 | 9.028 | 3.07 | 1 | **0.04** |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2022 | Block | 1.954 | 0.582 |
| Urbanization Score | 0.258 | 0.611 |