| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2020 | Block | 2.332 | 0.506 |
| Urbanization Score | 0.146 | 0.702 |

Table 5: Quantify variance explained by urbanization

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Inflorescences: 2020 | Family | 0.036 | 10.460 | 0.829 | 1 | 0.1815 |
| Inflorescences: 2020 | Population | 0.092 | 22.608 | 0.000 | 1 | 0.5 |

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

Urbanization = Urbanization Score

Table 4: Assess how much variance is explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2020 | Block | 2.713 | 0.438 |
| Distance to City Center | 2.205 | 0.138 |

Table 3: Quantify variance explained by urbanization

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Inflorescences: 2020 | Family | 0.019 | 5.766 | 0.688 | 1 | 0.2035 |
| Inflorescences: 2020 | Population | 0.078 | 19.839 | 0.000 | 1 | 0.5 |

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

Urbanization = Distance to the City Center

Table 2: Assess how much variance is explained by urbanization

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Inflorescences: 2020 | Family | 0.023 | 7.007 | 0.959 | 1 | 0.1635 |
| Inflorescences: 2020 | Population | 0.092 | 22.732 | 0.000 | 1 | 0.5 |

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

Table 1: Test for variance among families and populations