Table 1: Test for variance among families and populations

Model: total\_flower\_count ~ Block + (1 | Population) + (1 | Population:Fam\_uniq)

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flower count: 2020 | Family | 1.478 | 98.648 | 261.218 | 1 | **<0.001** |
| Population | 1.442 | 98.190 | 0.000 | 1 | 0.498 |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

Model: total\_flower\_count ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + City\_dist

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flower count: 2020 | Family | 0.967 | 97.949 | 258.628 | 1 | **<0.001** |
| Population | 1.222 | 97.872 | 0.000 | 1 | 0.5 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flower count: 2020 | Block | 59.633 | **<0.001\*\*\*** |
| Distance to City Center | 3.605 | 0.058 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

Model: total\_flower\_count ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Urb\_score

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flower count: 2020 | Family | 1.236 | 98.388 | 261.145 | 1 | **<0.001** |
| Population | 1.301 | 97.998 | 0.000 | 1 | 0.5 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flower count: 2020 | Block | 59.475 | **<0.001\*\*\*** |
| Urbanization Score | 2.308 | 0.129 |