Table 1: Test for variance among families and populations

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

PVE for population: 98.19. PVE for family: 98.648

| Variable | Group | p |
| --- | --- | --- |
| Flower count: 2020 | Family | **<0.001** |
| Population | 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:Family) + City\_dist

PVE for population: 97.872. PVE for family: 97.949

| Variable | Group | p |
| --- | --- | --- |
| Flower count: 2020 | Family | **<0.001** |
| Population | 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:Family) + Urb\_score

PVE for population: 97.998. PVE for family: 98.388

| Variable | Group | p |
| --- | --- | --- |
| Flower count: 2020 | Family | **<0.001** |
| Population | 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 |