Table 1: Test for variance among families and populations

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

PVE for population: 2.278. PVE for family: 5.489

| Variable | Group | p |
| --- | --- | --- |
| Flower count: 2021 | Family | 0.5 |
| Population | 0.311 |

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

PVE for population: 2.302. PVE for family: 5.677

| Variable | Group | p |
| --- | --- | --- |
| Flower count: 2021 | Family | 0.5 |
| Population | 0.309 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flower count: 2021 | Block | 3.844 | 0.279 |
| Distance to City Center | 0.006 | 0.94 |

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

PVE for population: NA. PVE for family: 2.432

| Variable | Group | p |
| --- | --- | --- |
| Flower count: 2021 | Family | 0.5 |
| Population | 0.4165 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flower count: 2021 | Block | 4.286 | 0.232 |
| Urbanization Score | 0.625 | 0.429 |