Table 1: Test for variance among families and populations

Model: as.numeric(flowering\_time) ~ Block + (1 | Population) + (1 | Population:Fam\_uniq)

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering duration: 2020 | Family | 0.037 | 100 | 1.277 | 1 | 0.129 |
| Population | 0.230 | 100 | 0.000 | 1 | 0.5 |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

Model: as.numeric(flowering\_time) ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + City\_dist

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering duration: 2020 | Family | 0.052 | 100 | 1.245 | 1 | 0.132 |
| Population | 0.232 | 100 | 0.000 | 1 | 0.5 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2020 | Block | 2.339 | 0.505 |
| Distance to City Center | 0.443 | 0.506 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

Model: as.numeric(flowering\_time) ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Urb\_score

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering duration: 2020 | Family | 0.003 | 100 | 1.192 | 1 | 0.1375 |
| Population | 0.218 | 100 | 0.000 | 1 | 0.5 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2020 | Block | 2.347 | 0.504 |
| Urbanization Score | 0.088 | 0.766 |