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 | 0.040 | 100 | 1.365 | 1 | 0.1215 |
| Population | 0.235 | 100 | 0.000 | 1 | 0.4915 |

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 | 0.055 | 100 | 1.324 | 1 | 0.125 |
| Population | 0.237 | 100 | 0.000 | 1 | 0.499 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2020 | Block | 2.276 | 0.517 |
| Distance to City Center | 0.449 | 0.503 |

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 | 0.008 | 100 | 1.294 | 1 | 0.1275 |
| Population | 0.224 | 100 | 0.000 | 1 | 0.4995 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2020 | Block | 2.282 | 0.516 |
| Urbanization Score | 0.081 | 0.776 |