Table 1: Test for variance among families and populations

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

PVE for population: 100. PVE for family: 100

| Variable | Group | p |
| --- | --- | --- |
| Flowering duration: 2020 | Family | 0.129 |
| Population | 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:Family) + City\_dist

PVE for population: 100. PVE for family: 100

| Variable | Group | p |
| --- | --- | --- |
| Flowering duration: 2020 | Family | 0.132 |
| Population | 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:Family) + Urb\_score

PVE for population: 100. PVE for family: 100

| Variable | Group | p |
| --- | --- | --- |
| Flowering duration: 2020 | Family | 0.1375 |
| Population | 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 |