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: 2021 | Family | **0.0295** |
| Population | **<0.001** |

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: 2021 | Family | **0.027** |
| Population | **0.001** |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2021 | Block | 6.420 | 0.093 |
| Distance to City Center | 1.229 | 0.268 |

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: 2021 | Family | **0.029** |
| Population | **<0.001** |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2021 | Block | 6.179 | 0.103 |
| Urbanization Score | 0.020 | 0.888 |