| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2022 | Block | 3.439 | 0.329 |
| Urbanization Score | 0.034 | 0.853 |

Table 5: Quantify variance explained by urbanization

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering duration: 2022 | Family | NA | NA | 0 | 1 | 0.5 |
| Flowering duration: 2022 | Population | NA | NA | 0 | 1 | 0.5 |

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

Urbanization = Urbanization Score

Table 4: Assess how much variance is explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Flowering duration: 2022 | Block | 3.405 | 0.333 |
| Distance to City Center | 0.006 | 0.937 |

Table 3: Quantify variance explained by urbanization

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering duration: 2022 | Family | NA | NA | 0 | 1 | 0.5 |
| Flowering duration: 2022 | Population | NA | NA | 0 | 1 | 0.5 |

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

Urbanization = Distance to the City Center

Table 2: Assess how much variance is explained by urbanization

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering duration: 2022 | Family | NA | NA | 0 | 1 | 0.5 |
| Flowering duration: 2022 | Population | NA | NA | 0 | 1 | 0.5 |

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

Table 1: Test for variance among families and populations