| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Flowering start: 2020 | Block | 0.386 | 0.943 |
| Urbanization Score | 0.006 | 0.938 |

Table 5: Quantify variance explained by urbanization

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering start: 2020 | Family | 0.071 | 93.671 | 6.041 | 1 | **0.007** |
| Flowering start: 2020 | Population | 0.060 | 92.693 | 0.000 | 1 | 0.5 |

Model: Julian\_oldest\_inflor - 170 ~ 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 start: 2020 | Block | 0.682 | 0.877 |
| Distance to City Center | 0.468 | 0.494 |

Table 3: Quantify variance explained by urbanization

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Flowering start: 2020 | Family | 0.066 | 93.268 | 5.947 | 1 | **0.0075** |
| Flowering start: 2020 | Population | 0.058 | 92.410 | 0.000 | 1 | 0.5 |

Model: Julian\_oldest\_inflor - 170 ~ 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 start: 2020 | Family | 0.071 | 93.736 | 6.084 | 1 | **0.007** |
| Flowering start: 2020 | Population | 0.060 | 92.686 | 0.000 | 1 | 0.5 |

Model: Julian\_oldest\_inflor - 170 ~ Block + (1 | Population) + (1 | Population:Fam\_uniq)

Table 1: Test for variance among families and populations