Table 1: Test for variance among families and populations

Model: Liriomyza\_asclepiadis ~ Block + (1 | Population) + (1 | Population:Fam\_uniq)

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Liriomyza asclepiadis: 2020 | Family | 0.040 | 5.140 | 18.689 | 1 | **<0.001** |
| Population | 0.087 | 10.537 | 1.416 | 1 | 0.117 |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

Model: Liriomyza\_asclepiadis ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + City\_dist

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Liriomyza asclepiadis: 2020 | Family | 0.040 | 5.116 | 18.600 | 1 | **<0.001** |
| Population | 0.088 | 10.558 | 1.432 | 1 | 0.1155 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Liriomyza asclepiadis: 2020 | Block | 86.787 | **<0.001\*\*\*** |
| Distance to City Center | 0.037 | 0.848 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

Model: Liriomyza\_asclepiadis ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Urb\_score

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Liriomyza asclepiadis: 2020 | Family | 0.039 | 4.978 | 18.457 | 1 | **<0.001** |
| Population | 0.087 | 10.458 | 1.369 | 1 | 0.121 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Liriomyza asclepiadis: 2020 | Block | 86.713 | **<0.001\*\*\*** |
| Urbanization Score | 0.713 | 0.398 |