Table 1: Test for variance among families and populations

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

PVE for population: 6.657. PVE for family: 3.068

| Variable | Group | p |
| --- | --- | --- |
| Liriomyza asclepiadis: 2021 | Family | **0.04** |
| Population | 0.125 |

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

PVE for population: 6.718. PVE for family: 3.07

| Variable | Group | p |
| --- | --- | --- |
| Liriomyza asclepiadis: 2021 | Family | **0.0385** |
| Population | 0.1285 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Liriomyza asclepiadis: 2021 | Block | 36.794 | **<0.001\*\*\*** |
| Distance to City Center | 0.174 | 0.677 |

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

PVE for population: 6.587. PVE for family: 2.948

| Variable | Group | p |
| --- | --- | --- |
| Liriomyza asclepiadis: 2021 | Family | **0.037** |
| Population | 0.151 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Liriomyza asclepiadis: 2021 | Block | 36.920 | **<0.001\*\*\*** |
| Urbanization Score | 0.694 | 0.405 |