# Urbanization = Distance to City Center

ANOVA with all years of data

Model: Liriomyza\_asclepiadis ~ Block + (1 | Population/Family) + Year + Sample + City\_dist + Transect\_ID + City\_dist:Transect\_ID

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Liriomyza asclepiadis abundance | Block | 86.744 | **<0.001\*\*\*** |
| Year | 916.928 | **<0.001\*\*\*** |
| Sample | 38.529 | **<0.001\*\*\*** |
| Distance to City Center | 0.043 | 0.836 |
| Subtransect | 1.364 | 0.243 |
| Distance to City Center x Subtransect | 0.204 | 0.651 |

ANOVA with one year of data

Model: Liriomyza\_asclepiadis ~ Block + (1 | Population/Family) + Sample + City\_dist + Transect\_ID + City\_dist:Transect\_ID

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Liriomyza asclepiadis abundance | Block | 39.154 | **<0.001\*\*\*** |
| Sample | 102.530 | **<0.001\*\*\*** |
| Distance to City Center | 0.834 | 0.361 |
| Subtransect | 0.114 | 0.736 |
| Distance to City Center x Subtransect | 0.160 | 0.689 |

# Urbanization = Urbanization Score

ANOVA with all years of data

Model: Liriomyza\_asclepiadis ~ Block + (1 | Population/Family) + Year + Sample + Urb\_score + Transect\_ID + Urb\_score:Transect\_ID

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Liriomyza asclepiadis abundance | Block | 87.359 | **<0.001\*\*\*** |
| Year | 917.276 | **<0.001\*\*\*** |
| Sample | 38.556 | **<0.001\*\*\*** |
| Urbanization Score | 0.108 | 0.743 |
| Subtransect | 1.562 | 0.211 |
| Urbanization Score x Subtransect | 0.185 | 0.667 |

ANOVA with one year of data

Model: Liriomyza\_asclepiadis ~ Block + (1 | Population/Family) + Sample + Urb\_score + Transect\_ID + Urb\_score:Transect\_ID

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Liriomyza asclepiadis abundance | Block | 38.736 | **<0.001\*\*\*** |
| Sample | 102.348 | **<0.001\*\*\*** |
| Urbanization Score | 0.369 | 0.543 |
| Subtransect | 0.097 | 0.755 |
| Urbanization Score x Subtransect | 0.081 | 0.775 |