Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: Dead ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mortality: 2022 | Family | 0.077 | 2.296 | 3.952 | 1 | **0.0235** |
| Population | 0.323 | 8.951 | 0.000 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mortality: 2022 | Block | 23.208 | **<0.001\*\*\*** |
| Subtransect | 0.061 | 0.805 |
| Distance to City Center | 1.070 | 0.301 |
| Subtransect x Distance to City Center | 1.352 | 0.245 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: Dead ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mortality: 2022 | Family | 0.062 | 1.859 | 3.965 | 1 | **0.023** |
| Population | 0.312 | 8.670 | 0.000 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mortality: 2022 | (Intercept) | 1.807 | 0.179 |
| Block | 24.660 | **<0.001\*\*\*** |
| Subtransect | 2.533 | 0.111 |
| Urbanization Score | 1.563 | 0.211 |
| Subtransect x Urbanization Score | 3.187 | 0.074 |