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 | p |
| --- | --- | --- | --- | --- |
| Mortality: 2020 | Family | 0.132 | 3.846 | 0.1875 |
| Population | 0.318 | 8.817 | 0.304 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2020 | Block | 2.218 | 0.528 |
| Subtransect | 1.063 | 0.303 |
| Distance to City Center | 2.953 | 0.086 |
| Subtransect x Distance to City Center | 2.567 | 0.109 |

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 | p |
| --- | --- | --- | --- | --- |
| Mortality: 2020 | Family | 0.188 | 5.399 | 0.22 |
| Population | 0.336 | 9.274 | 0.162 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2020 | Block | 3.020 | 0.389 |
| Subtransect | 0.838 | 0.36 |
| Urbanization Score | 0.479 | 0.489 |
| Subtransect x Urbanization Score | 2.443 | 0.118 |