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: 2020 | Family | 0.140 | 4.076 | 1.337 | 1 | 0.124 |
| Population | 0.451 | 12.054 | 0.154 | 1 | 0.3475 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mortality: 2020 | Block | 2.234 | 0.525 |
| Subtransect | 1.108 | 0.293 |
| Distance to City Center | 2.992 | 0.084 |
| Subtransect x Distance to City Center | 2.617 | 0.106 |

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: 2020 | Family | 0.205 | 5.860 | 1.072 | 1 | 0.15 |
| Population | 0.482 | 12.778 | 0.746 | 1 | 0.194 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mortality: 2020 | Block | 3.264 | 0.353 |
| Subtransect | 0.834 | 0.361 |
| Urbanization Score | 0.474 | 0.491 |
| Subtransect x Urbanization Score | 2.508 | 0.113 |