Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: rel\_growth\_rate^(1/3) ~ (1 | Population/Family) + Block + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Relative growth rate: 2020 | Family:Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Population | 1.441 | 0.000 | 2.313 | 0.115 |
| Residual |  | 0.002 | 97.687 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Relative growth rate: 2020 | Block | 0.601 | 0.896 |
| Subtransect | 3.970 | **0.046\*** |
| Distance to City Center | 3.221 | 0.073 |
| Subtransect x Distance to City Center | 0.704 | 0.402 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: rel\_growth\_rate^(1/3) ~ (1 | Population/Family) + Block + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Relative growth rate: 2020 | Family:Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Population | 1.239 | 0.000 | 2.258 | 0.133 |
| Residual |  | 0.002 | 97.742 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Relative growth rate: 2020 | (Intercept) | 691.546 | **<0.001\*\*\*** |
| Block | 0.861 | 0.835 |
| Subtransect | 0.253 | 0.615 |
| Urbanization Score | 2.755 | 0.097 |
| Subtransect x Urbanization Score | 3.792 | 0.051 |