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: 2021 | Family:Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Population | 0.483 | 0.000 | 1.389 | 0.2435 |
| Residual |  | 0.004 | 98.611 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Relative growth rate: 2021 | Block | 7.461 | 0.059 |
| Subtransect | 0.577 | 0.447 |
| Distance to City Center | 0.039 | 0.844 |
| Subtransect x Distance to City Center | 0.298 | 0.585 |

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: 2021 | Family:Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Population | 0.237 | 0.000 | 0.973 | 0.3135 |
| Residual |  | 0.004 | 99.027 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Relative growth rate: 2021 | Block | 7.338 | 0.062 |
| Subtransect | 0.423 | 0.516 |
| Urbanization Score | 0.123 | 0.726 |
| Subtransect x Urbanization Score | 1.089 | 0.297 |