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: 2019 | Family:Population | 0 | 0.000 | 0 | 0.5 |
| Population | 0 | 0.000 | 0 | 0.5 |
| Residual |  | 0.004 | 100 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Relative growth rate: 2019 | Block | 0.381 | 0.944 |
| Subtransect | 2.131 | 0.144 |
| Distance to City Center | 3.795 | 0.051 |
| Subtransect x Distance to City Center | 1.962 | 0.161 |

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: 2019 | Family:Population | 0 | 0.000 | 0 | 0.5 |
| Population | 0 | 0.000 | 0 | 0.5 |
| Residual |  | 0.004 | 100 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Relative growth rate: 2019 | Block | 0.480 | 0.923 |
| Subtransect | 0.718 | 0.397 |
| Urbanization Score | 1.418 | 0.234 |
| Subtransect x Urbanization Score | 1.892 | 0.169 |