Table 1: Test for variance among families and populations

Model: (rel\_growth\_rate^(1/3)) \* 100 ~ (1 | Population/Family) + Block

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Relative growth rate: 2019 | Family:Population | 0 | 0.00 | 0 | 0.5 |
| Population | 0 | 0.00 | 0 | 0.5 |
| Residual |  | 37.29 | 100 |  |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

Model: (rel\_growth\_rate^(1/3)) \* 100 ~ (1 | Population/Family) + Block + City\_dist

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Relative growth rate: 2019 | Family:Population | 0.000 | 0.000 | 0.00 | 0.5 |
| Population | 0.006 | 0.071 | 0.19 | 0.4695 |
| Residual |  | 37.315 | 99.81 |  |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Relative growth rate: 2019 | Block | 1.499 | 0.683 |
| Distance to City Center | 0.183 | 0.668 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

Model: (rel\_growth\_rate^(1/3)) \* 100 ~ (1 | Population/Family) + Block + 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 |  | 37.376 | 100 |  |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Relative growth rate: 2019 | Block | 1.440 | 0.696 |
| Urbanization Score | 0.246 | 0.62 |