Table 1: Test for variance among families and populations

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Relative growth rate: 2019 | Family:Population | 0.000 | 0 | 0.5 |
| Population | 0.000 | 0 | 0.5 |
| Residual | 0.004 | 100 |  |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Relative growth rate: 2019 | Family:Population | 0.000 | 0.00 | 0.5 |
| Population | 0.000 | 0.25 | 0.46 |
| Residual | 0.004 | 99.75 |  |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Relative growth rate: 2019 | Block | 1.520 | 0.678 |
| Distance to City Center | 0.185 | 0.668 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Relative growth rate: 2019 | Family:Population | 0.000 | 0 | 0.5 |
| Population | 0.000 | 0 | 0.5 |
| Residual | 0.004 | 100 |  |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Relative growth rate: 2019 | Block | 1.456 | 0.692 |
| Urbanization Score | 0.210 | 0.647 |