Table 1: Test for variance among families and populations

Model: SLA^(1/3) ~ (1 | Population/Family) + Block

| Variable | Group | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| SLA | Family:Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Population | 0.059 | 0.000 | 0.349 | 0.4045 |
| Residual |  | 0.125 | 99.651 |  |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

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

| Variable | Group | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| SLA | Family:Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Population | 0.126 | 0.001 | 0.521 | 0.3615 |
| Residual |  | 0.125 | 99.479 |  |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| SLA | Block | 53.219 | **<0.001\*\*\*** |
| Distance to City Center | 0.065 | 0.798 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

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

| Variable | Group | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| SLA | Family:Population | 0.0 | 0.000 | 0.000 | 0.5 |
| Population | 0.1 | 0.001 | 0.463 | 0.376 |
| Residual |  | 0.125 | 99.537 |  |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| SLA | Block | 52.828 | **<0.001\*\*\*** |
| Urbanization Score | 0.389 | 0.533 |