Table 1: Test for variance among families and populations

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| SLA | Family:Population | 0.000 | 0 | 0.5 |
| Population | 0.000 | 0 | 0.5 |
| Residual | 0.156 | 100 |  |

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 | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| SLA | Family:Population | 0.000 | 0 | 0.5 |
| Population | 0.000 | 0 | 0.5 |
| Residual | 0.156 | 100 |  |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| SLA | Block | 34.997 | **<0.001\*\*\*** |
| Distance to City Center | 0.249 | 0.618 |

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 | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| SLA | Family:Population | 0.000 | 0 | 0.5 |
| Population | 0.000 | 0 | 0.5 |
| Residual | 0.156 | 100 |  |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| SLA | Block | 34.812 | **<0.001\*\*\*** |
| Urbanization Score | 0.156 | 0.693 |