Table 1: Test for variance among families and populations

Model: sqrt(LDMC) ~ (1 | Population/Family) + Block

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| LDMC | Family:Population | 0.000 | 0.000 | 0.5 |
| Population | 0.000 | 0.066 | 0.479 |
| Residual | 0.003 | 99.934 |  |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

Model: sqrt(LDMC) ~ (1 | Population/Family) + Block + City\_dist

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| LDMC | Family:Population | 0.000 | 0 | 0.5 |
| Population | 0.000 | 0 | 0.5 |
| Residual | 0.003 | 100 |  |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| LDMC | Block | 47.653 | **<0.001\*\*\*** |
| Distance to City Center | 2.292 | 0.13 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

Model: sqrt(LDMC) ~ (1 | Population/Family) + Block + Urb\_score

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| LDMC | Family:Population | 0.000 | 0.000 | 0.5 |
| Population | 0.000 | 0.138 | 0.4565 |
| Residual | 0.003 | 99.862 |  |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| LDMC | Block | 47.636 | **<0.001\*\*\*** |
| Urbanization Score | 0.355 | 0.551 |