Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| LDMC | Family:Population | 0.000 | 1.073 | 0.421 |
| Population | 0.000 | 0.000 | 0.5 |
| Residual | 0.007 | 98.927 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| LDMC | Block | 13.333 | **0.004\*\*** |
| Subtransect | 1.419 | 0.234 |
| Distance to City Center | 0.010 | 0.92 |
| Subtransect x Distance to City Center | 1.246 | 0.264 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| LDMC | Family:Population | 0.000 | 0.957 | 0.43 |
| Population | 0.000 | 0.000 | 0.5 |
| Residual | 0.007 | 99.043 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| LDMC | Block | 13.034 | **0.005\*\*** |
| Subtransect | 1.438 | 0.23 |
| Urbanization Score | 0.010 | 0.921 |
| Subtransect x Urbanization Score | 0.395 | 0.53 |