Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| LDMC | Family:Population | 0.011 | 0.000 | 0.439 | 0.459 |
| Population | 0.050 | 0.000 | 0.413 | 0.4115 |
| Residual |  | 0.003 | 99.148 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| LDMC | Block | 29.173 | **<0.001\*\*\*** |
| Subtransect | 0.697 | 0.404 |
| Distance to City Center | 3.266 | 0.071 |
| Subtransect x Distance to City Center | 0.118 | 0.731 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| LDMC | Family:Population | 0.013 | 0.000 | 0.492 | 0.454 |
| Population | 0.211 | 0.000 | 0.888 | 0.323 |
| Residual |  | 0.003 | 98.620 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| LDMC | Block | 28.669 | **<0.001\*\*\*** |
| Subtransect | 0.687 | 0.407 |
| Urbanization Score | 0.733 | 0.392 |
| Subtransect x Urbanization Score | 1.271 | 0.26 |