Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Latex | Family:Population | 2.932 | 0.012 | 7.027 | **0.0435** |
| Population | 2.243 | 0.006 | 3.697 | 0.067 |
| Residual |  | 0.156 | 89.276 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Latex | Block | 17.903 | **<0.001\*\*\*** |
| Subtransect | 0.013 | 0.908 |
| Distance to City Center | 1.644 | 0.2 |
| Subtransect x Distance to City Center | 0.448 | 0.503 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | χ2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Latex | Family:Population | 3.021 | 0.012 | 7.320 | **0.041** |
| Population | 0.291 | 0.002 | 1.299 | 0.295 |
| Residual |  | 0.156 | 91.382 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Latex | (Intercept) | 664.400 | **<0.001\*\*\*** |
| Block | 20.174 | **<0.001\*\*\*** |
| Subtransect | 4.869 | **0.027\*** |
| Urbanization Score | 9.119 | **0.003\*\*** |
| Subtransect x Urbanization Score | 5.217 | **0.022\*** |