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 | 3.074 | 0.012 | 7.114 | **0.04** |
| Population | 2.547 | 0.007 | 3.946 | 0.055 |
| Residual |  | 0.156 | 88.940 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Latex | Block | 14.404 | **<0.001\*\*\*** |
| Subtransect | 0.003 | 0.953 |
| Distance to City Center | 1.702 | 0.192 |
| Subtransect x Distance to City Center | 0.534 | 0.465 |

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 | 3.228 | 0.013 | 7.465 | **0.036** |
| Population | 0.504 | 0.003 | 1.722 | 0.239 |
| Residual |  | 0.156 | 90.814 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Latex | (Intercept) | 633.370 | **<0.001\*\*\*** |
| Block | 15.881 | **<0.001\*\*\*** |
| Subtransect | 4.183 | **0.041\*** |
| Urbanization Score | 8.246 | **0.004\*\*** |
| Subtransect x Urbanization Score | 4.564 | **0.033\*** |