Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Height before flowering: 2019 | Family:Population | 0.024 | 11.953 | **<0.001** |
| Population | 0.000 | 0.000 | 0.5 |
| Residual | 0.179 | 88.047 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Height before flowering: 2019 | Block | 4.240 | 0.237 |
| Subtransect | 11.415 | <0.001\*\*\* |
| Distance to City Center | 0.237 | 0.627 |
| Subtransect x Distance to City Center | 0.007 | 0.934 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Height before flowering: 2019 | Family:Population | 0.025 | 12.07 | **<0.001** |
| Population | 0.000 | 0.00 | 0.5 |
| Residual | 0.179 | 87.93 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Height before flowering: 2019 | Block | 4.401 | 0.221 |
| Subtransect | 11.382 | <0.001\*\*\* |
| Urbanization Score | 0.247 | 0.619 |
| Subtransect x Urbanization Score | 0.002 | 0.961 |