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 | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Height before flowering: 2019 | Family:Population | 9.527 | 0.022 | 11.13 | **0.001** |
| Population | 0.000 | 0.000 | 0.00 | 0.5 |
| Residual |  | 0.173 | 88.87 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height before flowering: 2019 | Block | 7.176 | 0.067 |
| Subtransect | 8.529 | **0.003\*\*** |
| Distance to City Center | 0.244 | 0.622 |
| Subtransect x Distance to City Center | 0.036 | 0.85 |

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 | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Height before flowering: 2019 | Family:Population | 9.632 | 0.022 | 11.182 | **0.001** |
| Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Residual |  | 0.173 | 88.818 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height before flowering: 2019 | Block | 7.493 | 0.058 |
| Subtransect | 8.155 | **0.004\*\*** |
| Urbanization Score | 0.027 | 0.869 |
| Subtransect x Urbanization Score | 0.280 | 0.596 |