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: 2021 | Family:Population | 1.681 | 0.071 | 4.617 | 0.0975 |
| Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Residual |  | 1.465 | 95.383 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height before flowering: 2021 | Block | 44.380 | **<0.001\*\*\*** |
| Subtransect | 0.009 | 0.925 |
| Distance to City Center | 0.127 | 0.722 |
| Subtransect x Distance to City Center | 0.001 | 0.973 |

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: 2021 | Family:Population | 1.575 | 0.069 | 4.475 | 0.1045 |
| Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Residual |  | 1.467 | 95.525 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height before flowering: 2021 | Block | 44.885 | **<0.001\*\*\*** |
| Subtransect | 0.003 | 0.954 |
| Urbanization Score | 0.275 | 0.6 |
| Subtransect x Urbanization Score | 0.061 | 0.805 |