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: 2020 | Family:Population | 1.378 | 0.040 | 4.380 | 0.12 |
| Population | 0.249 | 0.009 | 0.981 | 0.309 |
| Residual |  | 0.868 | 94.639 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height before flowering: 2020 | Block | 37.899 | **<0.001\*\*\*** |
| Subtransect | 0.911 | 0.34 |
| Distance to City Center | 1.688 | 0.194 |
| Subtransect x Distance to City Center | 0.207 | 0.649 |

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: 2020 | Family:Population | 1.245 | 0.038 | 4.144 | 0.1325 |
| Population | 0.451 | 0.013 | 1.374 | 0.251 |
| Residual |  | 0.870 | 94.482 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height before flowering: 2020 | Block | 39.714 | **<0.001\*\*\*** |
| Subtransect | 1.108 | 0.292 |
| Urbanization Score | 0.001 | 0.982 |
| Subtransect x Urbanization Score | 0.005 | 0.944 |