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 | 1.663 | 0.030 | 4.595 | 0.0985 |
| Population | 0.132 | 0.004 | 0.677 | 0.358 |
| Residual |  | 0.626 | 94.727 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height before flowering: 2020 | Block | 46.534 | **<0.001\*\*\*** |
| Subtransect | 0.180 | 0.671 |
| Distance to City Center | 0.974 | 0.324 |
| Subtransect x Distance to City Center | 0.122 | 0.727 |

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 | 1.602 | 0.030 | 4.522 | 0.103 |
| Population | 0.084 | 0.004 | 0.549 | 0.386 |
| Residual |  | 0.628 | 94.929 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height before flowering: 2020 | Block | 47.234 | **<0.001\*\*\*** |
| Subtransect | 0.444 | 0.505 |
| Urbanization Score | 0.570 | 0.45 |
| Subtransect x Urbanization Score | 0.137 | 0.711 |