Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Height after flowering: 2020 | Family:Population | 0.651 | 0.066 | 3.062 | 0.21 |
| Population | 0.000 | 0.000 | 0.000 | 0.5 |
| Residual |  | 2.092 | 96.938 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height after flowering: 2020 | Block | 26.796 | **<0.001\*\*\*** |
| Subtransect | 0.473 | 0.492 |
| Distance to City Center | 2.932 | 0.087 |
| Subtransect x Distance to City Center | 0.136 | 0.713 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Ï‡2 | Variance | PVE | p |
| --- | --- | --- | --- | --- | --- |
| Height after flowering: 2020 | Family:Population | 0.551 | 0.061 | 2.802 | 0.229 |
| Population | 0.057 | 0.011 | 0.510 | 0.4055 |
| Residual |  | 2.095 | 96.689 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height after flowering: 2020 | Block | 28.817 | **<0.001\*\*\*** |
| Subtransect | 0.520 | 0.471 |
| Urbanization Score | 0.309 | 0.578 |
| Subtransect x Urbanization Score | 0.917 | 0.338 |