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: 2019 | Family:Population | 1.414 | 0.039 | 4.223 | 0.117 |
| Population | 0.759 | 0.017 | 1.815 | 0.192 |
| Residual |  | 0.873 | 93.962 |  |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height after flowering: 2019 | Block | 26.502 | **<0.001\*\*\*** |
| Subtransect | 1.684 | 0.194 |
| Distance to City Center | 0.135 | 0.714 |
| Subtransect x Distance to City Center | 0.095 | 0.758 |

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: 2019 | Family:Population | 1.444 | 0.039 | 4.282 | 0.115 |
| Population | 0.314 | 0.010 | 1.118 | 0.2875 |
| Residual |  | 0.872 | 94.600 |  |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Height after flowering: 2019 | Block | 26.022 | **<0.001\*\*\*** |
| Subtransect | 2.810 | 0.094 |
| Urbanization Score | 3.813 | 0.051 |
| Subtransect x Urbanization Score | 0.090 | 0.764 |