Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: Julian\_first\_follicle/3 ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Date of first follicle: 2022 | Family | 1 | 98.629 |  | 1 | NaN |
| Date of first follicle: 2022 | Population | 1 | 98.636 |  | 1 | NaN |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Date of first follicle: 2022 | Block | 0.209 | 0.976 |
| Subtransect | 0.000 | 0.986 |
| Distance to City Center | 0.001 | 0.981 |
| Subtransect x Distance to City Center | 0.000 | 0.995 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: Julian\_first\_follicle/3 ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Date of first follicle: 2022 | Family | 1 | 98.629 |  | 1 | NaN |
| Date of first follicle: 2022 | Population | 1 | 98.636 |  | 1 | NaN |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Date of first follicle: 2022 | Block | 0.209 | 0.976 |
| Subtransect | 0.000 | 0.987 |
| Urbanization Score | 0.000 | 0.996 |
| Subtransect x Urbanization Score | 0.001 | 0.979 |