Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: Julian\_first\_follicle - 200 ~ (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: 2020 | Family | NA | NA | 4.147 | 1 | **0.021** |
| Date of first follicle: 2020 | Population | 0.039 | 52.85 | 0.000 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Date of first follicle: 2020 | Subtransect | 1.573 | 0.21 |
| Distance to City Center | 3.299 | 0.069 |
| Subtransect x Distance to City Center | 0.322 | 0.571 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: Julian\_first\_follicle - 200 ~ (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: 2020 | Family | NA | NA | 2.259 | 1 | 0.0665 |
| Date of first follicle: 2020 | Population | 0.026 | 42.881 | 0.000 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Date of first follicle: 2020 | Subtransect | 0.976 | 0.323 |
| Urbanization Score | 6.205 | **0.013\*** |
| Subtransect x Urbanization Score | 1.198 | 0.274 |