Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: Julian\_first\_follicle - 200 ~ 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: 2021 | Family | 0.009 | 17.007 | 4.078 | 1 | **0.0215** |
| Date of first follicle: 2021 | Population | 0.031 | 40.817 | 0.000 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Date of first follicle: 2021 | Block | 8.231 | **0.041\*** |
| Subtransect | 1.984 | 0.159 |
| Distance to City Center | 4.690 | **0.03\*** |
| Subtransect x Distance to City Center | 0.586 | 0.444 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: Julian\_first\_follicle - 200 ~ 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: 2021 | Family | 0.014 | 23.836 | 4.621 | 1 | **0.016** |
| Date of first follicle: 2021 | Population | 0.036 | 44.622 | 0.000 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Date of first follicle: 2021 | Block | 6.158 | 0.104 |
| Subtransect | 3.227 | 0.072 |
| Urbanization Score | 2.897 | 0.089 |
| Subtransect x Urbanization Score | 0.018 | 0.895 |