Table 1: Test for variance among families and populations

Model: Pods ~ Block + (1 | Population) + (1 | Population:Fam\_uniq)

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Follicles: 2021 | Family | 1.494 | 78.380 | **<0.001** |
| Population | 2.273 | 79.552 | 0.473 |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

Model: Pods ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + City\_dist

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Follicles: 2021 | Family | 1.452 | 77.904 | **<0.001** |
| Population | 2.275 | 79.564 | 0.5 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Follicles: 2021 | Block | 9.164 | **0.027\*** |
| Distance to City Center | 1.298 | 0.255 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

Model: Pods ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Urb\_score

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Follicles: 2021 | Family | 1.493 | 78.371 | **<0.001** |
| Population | 2.277 | 79.577 | 0.5 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Follicles: 2021 | Block | 9.361 | **0.025\*** |
| Urbanization Score | 0.679 | 0.41 |