Table 1: Test for variance among families and populations

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Follicles: 2020 | Family | 0.784 | 81.410 | 16.258 | 1 | **<0.001** |
| Population | 0.829 | 80.447 | 0.000 | 1 | 0.492 |

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 | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Follicles: 2020 | Family | 0.780 | 81.324 | 16.248 | 1 | **<0.001** |
| Population | 0.828 | 80.432 | 0.001 | 1 | 0.489 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Follicles: 2020 | Block | 0.153 | 0.985 |
| Distance to City Center | 0.001 | 0.973 |

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 | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Follicles: 2020 | Family | 0.782 | 81.375 | 16.252 | 1 | **<0.001** |
| Population | 0.829 | 80.450 | 0.000 | 1 | 0.495 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Follicles: 2020 | Block | 0.15 | 0.985 |
| Urbanization Score | 0.00 | 0.985 |