Table 1: Test for variance among families and populations

Model: Pods ~ Block + (1 | Population) + (1 | Population:Family)

PVE for population: 80.447. PVE for family: 81.41

| Variable | Group | p |
| --- | --- | --- |
| Follicles: 2020 | Family | **<0.001** |
| Population | 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:Family) + City\_dist

PVE for population: 80.432. PVE for family: 81.324

| Variable | Group | p |
| --- | --- | --- |
| Follicles: 2020 | Family | **<0.001** |
| Population | 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:Family) + Urb\_score

PVE for population: 80.45. PVE for family: 81.375

| Variable | Group | p |
| --- | --- | --- |
| Follicles: 2020 | Family | **<0.001** |
| Population | 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 |