Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Pods: 2020 | Family | NA | NA | 13.726 | 1 | **<0.001** |
| Population | 0.285 | 59.348 | 0.000 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pods: 2020 | Block | 4.980 | 0.173 |
| Subtransect | 4.456 | **0.035\*** |
| Distance to City Center | 6.711 | **0.01\*\*** |
| Subtransect x Distance to City Center | 1.909 | 0.167 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Pods: 2020 | Family | 0.371 | 67.848 | 15.947 | 1 | **<0.001** |
| Population | 0.525 | 72.912 | 0.000 | 1 | 0.494 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pods: 2020 | Block | 1.184 | 0.757 |
| Subtransect | 0.601 | 0.438 |
| Urbanization Score | 0.902 | 0.342 |
| Subtransect x Urbanization Score | 0.993 | 0.319 |